**CUMULATIVE NEUTRON RADIOGRAPHIC IMAGING PAPERS**

**2012 – 2021 (947 papers)**

 13th April 2021

KEYWORDS: Neutron Radiography, Neutron Imaging, Neutron Tomography, Neutron CT

If your paper is not shown, please send the details to john@radsci.co.uk and we will have it included.

Highlighted entries each have a selected image featured on the RadSci website

 **2021**

Total number of papers listed: 40

[**Additive Manufacturing**](https://www.sciencedirect.com/journal/additive-manufacturing/vol/39/suppl/C) **(1)**

[Nondestructive characterization of laser powder bed fusion parts with neutron Bragg edge imaging](https://www.sciencedirect.com/science/article/pii/S2214860421000130)

[Matteo Busi, Nikola Kalentics, Manuel Morgano, Seth Griffiths, Anton S.Tremsin, Takenao Shinohara, Roland Logé, Christian Leinenbach, Markus Strobl](https://www.sciencedirect.com/science/article/pii/S2214860421000130#!)

[*Additive Manufacturing*](https://www.sciencedirect.com/science/journal/22148604)

[*Volume 39*](https://www.sciencedirect.com/science/journal/22148604/39/supp/C)*, March 2021, 101848*

[*https://doi.org/10.1016/j.addma.2021.101848*](https://doi.org/10.1016/j.addma.2021.101848)

[**Alexandria Engineering Journal**](https://www.sciencedirect.com/journal/alexandria-engineering-journal) **(1)**

[High quality reconstruction for neutron computerized tomography images](https://www.sciencedirect.com/science/article/pii/S1110016820306311)

[Salwa R.Soliman, Hala H.Zayed, Mazen M.Selim, H.Kasban, T.Mongy](https://www.sciencedirect.com/science/article/pii/S1110016820306311#!)

[*Alexandria Engineering Journal*](https://www.sciencedirect.com/science/journal/11100168)

[*Volume 60, Issue 2*](https://www.sciencedirect.com/science/journal/11100168/60/2)*, April 2021, Pages 2041-2064*

[*https://doi.org/10.1016/j.aej.2020.12.005*](https://doi.org/10.1016/j.aej.2020.12.005)

[**Applied Radiation and Isotopes**](https://www.sciencedirect.com/journal/applied-radiation-and-isotopes/vol/161/suppl/C) **(1)**

[A moveable neutron imaging facility using D-T neutron source based on a compact accelerator](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X)

[Sheng Wang](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Wei Yin](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Bin Liu](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Hang Li](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Yong Sun](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Chao Cao](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Yang Wu](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [He-Yong Huo](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Shi-Lei Zhu](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Ben-Chao Lou](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [Chun-Lei, Wu](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!), [BinTang](https://www.sciencedirect.com/science/article/abs/pii/S096980432030703X#!)

[*Applied Radiation and Isotopes*](https://www.sciencedirect.com/science/journal/09698043)*,* [*Volume 161*](https://www.sciencedirect.com/science/journal/09698043/161/supp/C)*, July 2020, 109147*

[*https://doi.org/10.1016/j.apradiso.2020.109564*](https://doi.org/10.1016/j.apradiso.2020.109564)

[**Applied Sciences**](https://www.mdpi.com/journal/applsci) **(2)**

[Mapping Spatial Distribution of Pores in an Additively Manufactured Gold Alloy Using Neutron Microtomography](https://www.mdpi.com/2076-3417/11/4/1512)

[Hossein Ghasemi-Tabasi](https://sciprofiles.com/profile/1423642), [Pavel Trtik](https://sciprofiles.com/profile/161180), [Jamasp Jhabvala](https://sciprofiles.com/profile/1022318), [Michael Meyer](https://sciprofiles.com/profile/author/WWpxaHhCaThXR284TWlIT1Z1RWZtQ0lRRFN3b3FRY09Pc3pCVy9QOHJzND0%3D), [Chiara Carminati](https://sciprofiles.com/profile/304891), [Markus Strobl](https://sciprofiles.com/profile/340087), [Roland E. Logé](https://sciprofiles.com/profile/210165)

Appl. Sci. 2021, 11(4), *1512;*

[*https://doi.org/10.3390/app11041512*](https://doi.org/10.3390/app11041512)*- 08 Feb 2021*

[An Investigation of Radial Basis Function Method for Strain Reconstruction by Energy-Resolved Neutron Imaging](https://www.mdpi.com/2076-3417/11/1/391)

[Riya Aggarwal](https://sciprofiles.com/profile/author/Qmk0NUovUThycUxIRkxHS2owcnZrTGoxNWlXYncycVYzTFRUKys3WDNnOD0%3D), [Bishnu P. Lamichhane](https://sciprofiles.com/profile/author/SHBXMVZnam1VaFBDM2FscVpGN3dxbko3UW83VG80WlZpaG1uSVZJcThEckJ5ZjRNQVJSYWRwMzZCMVg4TzdCSw%3D%3D), [Michael H. Meylan](https://sciprofiles.com/profile/929217), [Chris M. Wensrich](https://sciprofiles.com/profile/author/d0ZHbUJJcUF4U2FBTHRvRndGbUg5SXVtTVlYaFNGd2hMeUdaSksyQ0wvbktRSFMrTU5TUzJRUC9rSk10M0RyNQ%3D%3D)

Appl. Sci. 2021, 11(1), 391;

<https://doi.org/10.3390/app11010391> - 03 Jan 2021

[**Carbon**](https://www.sciencedirect.com/journal/carbon) **(1)**

[Dynamics of hydrogen loss and structural changes in pyrolyzing biomass utilizing neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0008622320311398)

[Frederik Ossler](https://www.sciencedirect.com/science/article/abs/pii/S0008622320311398#!), [Charles E.A.Finney, Jeffrey M.Warren, Jean-Christophe Bilheux, Yuxuan Zhang, Rebecca A.Mills, Louis J.Santodonato, Hassina Z.Bilheux](https://www.sciencedirect.com/science/article/abs/pii/S0008622320311398#!)

*Carbon,* [*Volume 176*](https://www.sciencedirect.com/science/journal/00086223/176/supp/C)*, May 2021, Pages 511-529*

[*https://doi.org/10.1016/j.carbon.2020.11.060*](https://doi.org/10.1016/j.carbon.2020.11.060)

[**Cement and Concrete Composites**](https://www.sciencedirect.com/journal/cement-and-concrete-research/vol/118/suppl/C) **(1)**

[Spatial distribution of graphite in cement materials used for radioactive waste conditioning: An approach to analysis of neutron tomography data](https://www.sciencedirect.com/science/article/abs/pii/S0958946521000627)

[I. Yu.Zel, M.Kenessarin, S.E.Kichanov, M.Balasoiu, D.P.Kozlenko, K.Nazarov, M.Nicu, L.Ionascu, A.C.Dragolici, F.Dragolici](https://www.sciencedirect.com/science/article/abs/pii/S0958946521000627#!)

[*Cement and Concrete Composites*](https://www.sciencedirect.com/science/journal/09589465)*,* [*Volume 119*](https://www.sciencedirect.com/science/journal/09589465/119/supp/C)*, May 2021, 103993*

[*https://doi.org/10.1016/j.cemconcomp.2021.103993*](https://doi.org/10.1016/j.cemconcomp.2021.103993)

[**Cement and Concrete Research**](https://www.sciencedirect.com/journal/cement-and-concrete-composites/vol/119/suppl/C) **(3)**

[Microstructure and water absorption of ancient concrete from Pompeii: An integrated synchrotron microtomography and neutron radiography characterization](https://www.sciencedirect.com/science/article/abs/pii/S0008884620315623)

[Ke Xu, Anton S.Tremsin, Jiaqi Li, Daniela M.Ushizima, Catherine A.Davy, Amine Bouterf, Ying Tsun Su, Milena Marroccoli, Anna Maria Mauro, Massimo Osanna, Antonio Telesca, Paulo J.M.Monteiro](https://www.sciencedirect.com/science/article/abs/pii/S0008884620315623#!)

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)*,*  [Volume 139](https://www.sciencedirect.com/science/journal/00088846/139/supp/C), January 2021, 106282

[Plastic shrinkage of mortars cured with a paraffin-based compound – Bimodal neutron/X-ray tomography study](https://www.sciencedirect.com/science/article/pii/S0008884620315696)

[Mateusz Wyrzykowski, Sadegh Ghourchian, Beat Münch, Michele Griffa, Anders Kaestner, Pietro Lura](https://www.sciencedirect.com/science/article/pii/S0008884620315696#!)

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)

[*Volume 140*](https://www.sciencedirect.com/science/journal/00088846/140/supp/C)*, February 2021, 106289*

[A closer look at corrosion of steel reinforcement bars in concrete using 3D neutron and X-ray computed tomography](https://www.sciencedirect.com/science/article/pii/S0008884621000880)

[Samanta Robuschi, Alessandro Tengattini, Jelke Dijkstra, Ignasi Fernandez, Karin Lundgren](https://www.sciencedirect.com/science/article/pii/S0008884621000880#!)

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)*,* [*Volume 144*](https://www.sciencedirect.com/science/journal/00088846/144/supp/C)*, June 2021, 106439*

[*https://doi.org/10.1016/j.cemconres.2021.106439*](https://doi.org/10.1016/j.cemconres.2021.106439)

[**Energy Conversion and Management**](https://www.sciencedirect.com/journal/energy-conversion-and-management) **(1)**

[Multi-length scale characterization of compression on metal foam flow-field based fuel cells using X-ray computed tomography and neutron radiography](https://www.sciencedirect.com/science/article/abs/pii/S019689042031308X#!)

[Y.Wu, X.Lu, J.I.S.Cho, L.Rasha, M.Whiteley, T.P.Neville, R.Ziesche, N.Kardjilov, H.Markötter, I.Manke, X.Zhang,](https://www.sciencedirect.com/science/article/abs/pii/S019689042031308X#!) [P.R.Shearing,](https://www.sciencedirect.com/science/article/abs/pii/S019689042031308X%22%20%5Cl%20%22%21) [D.J.L.Brett](https://www.sciencedirect.com/science/article/abs/pii/S019689042031308X%22%20%5Cl%20%22%21)

[*Energy Conversion and Management*](https://www.sciencedirect.com/science/journal/01968904)*,* [*Volume 230*](https://www.sciencedirect.com/science/journal/01968904/230/supp/C)*, 15 February 2021, 113785*

[*https://doi.org/10.1016/j.enconman.2020.113785*](https://doi.org/10.1016/j.enconman.2020.113785)

[**Fusion Engineering and Design**](https://www.sciencedirect.com/journal/fusion-engineering-and-design/vol/167/suppl/C) **(1)**

[Characterization of an ultra-compact neutron source based on an IEC fusion device and its prospective applications in radiography](https://www.sciencedirect.com/science/article/abs/pii/S0920379621001228)

[Mahmoud Bakr, Keisuke Mukai, Kai Masuda, JuroYagi, Satoshi Konishi](https://www.sciencedirect.com/science/article/abs/pii/S0920379621001228#!)

[*Fusion Engineering and Design*](https://www.sciencedirect.com/science/journal/09203796)*,* [*Volume 167*](https://www.sciencedirect.com/science/journal/09203796/167/supp/C)*, June 2021, 112346*

[*https://doi.org/10.1016/j.fusengdes.2021.112346*](https://doi.org/10.1016/j.fusengdes.2021.112346)

[**ISIJ International**](https://www.jstage.jst.go.jp/browse/isijinternational)  **(1)**

Improvement of Bragg-edge Neutron Transmission Imaging for Evaluating the Crystalline Phase Volume Fraction in Steel Composed of Ferrite and Austenite

[Hirotaka Sato](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Hirotaka+Sato), [Miyuki Sato](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Miyuki+Sato), [Yuhua Su](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Yuhua+Su), [Takenao Shinohara](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Takenao+Shinohara), [Takashi Kamiyama](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Takashi+Kamiyama)

Article ID: ISIJINT-2020-257 Accepted: January 05, 2021

<https://doi.org/10.2355/isijinternational.ISIJINT-2020-257>

[**Journal of Archaeological Science: Reports**](https://www.sciencedirect.com/journal/journal-of-archaeological-science-reports/vol/35/suppl/C) **(1)**

[Studies of ancient pottery fragments from Dobrudja region of Romania using neutron diffraction, tomography and Raman spectroscopy](https://www.sciencedirect.com/science/article/abs/pii/S2352409X20305460)

[B.A.Abdurakhimov, S.E.Kichanov, C.Talmaţchi, D.P.Kozlenko, G.Talmaţchi, N.M.Belozerova, M.Bǎlǎșoiu, M.C.Belc](https://www.sciencedirect.com/science/article/abs/pii/S2352409X20305460#!)

[*Journal of Archaeological Science: Reports*](https://www.sciencedirect.com/science/journal/2352409X)*,* [*Volume 35*](https://www.sciencedirect.com/science/journal/2352409X/35/supp/C)*, February 2021, 102755*

[*https://doi.org/10.1016/j.jasrep.2020.102755*](https://doi.org/10.1016/j.jasrep.2020.102755)

[**Journal of the Electrochemical Society**](https://iopscience.iop.org/journal/1945-7111) **(1)**

[PTFE Content in Catalyst Layers and Microporous Layers: Effect on Performance and Water Distribution in Polymer Electrolyte Membrane Fuel Cell](https://iopscience.iop.org/article/10.1149/1945-7111/abec53)

Mohseninia, A., Eppler, M., Kartouzian, D., Markotter, H., Kardjilov, N., Wilhelm, F., Scholta, J., Manke, I.

*Journal of the Electrochemical Society, Volume 168, Issue 3, March 2021, Article number 034509*

***DOI:****10.1149/1945-7111/abec5*

[**Journal of Energy Storage**](https://www.journals.elsevier.com/journal-of-energy-storage) **(1)**

[Sr(NH3)8Cl2-Expanded Natural Graphite composite for thermochemical heat storage applications studied by *in-situ* neutron imaging](https://www.sciencedirect.com/science/article/pii/S2352152X20320016)

[Perizat Berdiyeva, Anastasiia Karabanova, Didier Blanchard, Bjørn C.Hauback](https://www.sciencedirect.com/science/article/pii/S2352152X20320016#!), [Stefano Deledda](https://www.sciencedirect.com/science/article/pii/S2352152X20320016#!)

*Journal of Energy Storage, 2021, Vol 34*

[*https://doi.org/10.1016/j.est.2020.102176*](https://doi.org/10.1016/j.est.2020.102176)

[**Journal of Imaging**](https://www.mdpi.com/journal/jimaging) **(4)**

[The Neutron Imaging Instrument CONRAD—Post-Operational Review](https://www.mdpi.com/2313-433X/7/1/11)

[Nikolay Kardjilov](https://sciprofiles.com/profile/337851), [Ingo Manke](https://sciprofiles.com/profile/author/YXlMY0FjTUlabXJNQWVzY044S0pUVk80QWlOWllYRkdGSzBLeWZrNGk0bz0%3D), [André Hilger](https://sciprofiles.com/profile/494898), [Tobias Arlt](https://sciprofiles.com/profile/500148), [Robert Bradbury](https://sciprofiles.com/profile/author/NlJWUG14d3NYSmpzOFh3dFNUR09zMXg4bG9JMmRGcnV6cm9QcFlId2tkVT0%3D), [Henning Markötter](https://sciprofiles.com/profile/author/Um1iRk8yQkpJa2hSVFdMR2ppa2ZXME5yRlA4Z05Uemc0N0NzRWxtTjVHdz0%3D), [Robin Woracek](https://sciprofiles.com/profile/author/WnFOaUNhQWVQczFWR2MwUU8rOTVEWmMvZTY5NHZvS2kyTlFtWXhhOVgxQT0%3D), [Markus Strobl](https://sciprofiles.com/profile/340087), [Wolfgang Treimer](https://sciprofiles.com/profile/1203286), [John Banhart](https://sciprofiles.com/profile/293917)

J. Imaging 2021, 7*(1), 11;*[*https://doi.org/10.3390/jimaging7010011*](https://doi.org/10.3390/jimaging7010011)

*Received: 20 December 2020 / Revised: 8 January 2021 / Accepted: 10 January 2021 / Published: 19 January 2021*

[Comparison of Thermal Neutron and Hard X-ray Dark-Field Tomography](https://www.mdpi.com/2313-433X/7/1/1)

[Alex Gustschin](https://sciprofiles.com/profile/1358397), [Tobias Neuwirth](https://sciprofiles.com/profile/1318359), [Alexander Backs](https://sciprofiles.com/profile/author/U1h2eXRLdjd2U1N0aFY3WUNEdVdVdlo5aHZYZnlkNGtjdzdBSm9Qb2krYz0%3D), [Manuel Viermetz](https://sciprofiles.com/profile/1388720), [Nikolai Gustschin](https://sciprofiles.com/profile/1389891), [Michael Schulz](https://sciprofiles.com/profile/1030999), [Franz Pfeiffer](https://sciprofiles.com/profile/author/V1dHalNoZDJhSklOQ0o4bysyZkIzblBYWm1FUFFaR2tzZnRCNHd5UHJQaz0%3D)

J. Imaging *2021,*7*(1), 1;*[*https://doi.org/10.3390/jimaging7010001*](https://doi.org/10.3390/jimaging7010001)

*Received: 27 November 2020 / Revised: 16 December 2020 / Accepted: 17 December 2020 / Published: 23 December 2020*

[Neutron Imaging Using a Fine-Grained Nuclear Emulsion](https://www.mdpi.com/2313-433X/7/1/4/htm)

[Katsuya Hirota](https://sciprofiles.com/profile/1320230), [Tomoko Ariga](https://sciprofiles.com/profile/author/bS9BZkt2UkFJK2dKLzFOdk52RTUzRXdLOHlaZmlxVkJTYzFWK2dqYTJQaz0%3D), [Masahiro Hino](https://sciprofiles.com/profile/author/T1JuZ1FIOXBGSnEyUCtmbmdyTkdVZWpJR3RzR1YxeE8xU1VhdmZQUzdPUT0%3D), [Go Ichikawa](https://sciprofiles.com/profile/author/czdMaCtSS3J5bVZCNXZWc3M2K21nUWRNZ0MyM1EvWHBObkY4cEh3cGlrRT0%3D), [Shinsuke Kawasaki](https://sciprofiles.com/profile/author/aFppUFpDcHlBNE9lNTRaenM4Nm9WU0pQNjlxTEtSc0wrMEZ1cWFJeU9lTT0%3D), [Masaaki Kitaguchi](https://sciprofiles.com/profile/author/MEM2aHJIK2hXZnRhN3o1dlFTWElINjE1ZTREdlNlR2ZDQmFyd0xZWGw1RWVsYzJmMjJHTmVQU3RaMzMyTWk4bw%3D%3D), [Kenji Mishima](https://sciprofiles.com/profile/1405770), [Naoto Muto](https://sciprofiles.com/profile/1416449), [Naotaka Naganawa](https://sciprofiles.com/profile/author/THNja3VjN1hhR2t1VzQ3VWZSMXErbVRkSTZSV055eVZBaHRZUUtQTDkvTHMyTmE1WUpWWktTTllaOE9malFRdA%3D%3D), [Hirohiko M. Shimizu](https://sciprofiles.com/profile/1405743)

J. Imaging 2021, 7(1), 4; <https://doi.org/10.3390/jimaging7010004>

Received: 30 October 2020 / Revised: 9 December 2020 / Accepted: 23 December 2020 / Published: 5 January 2021

[Improved Acquisition and Reconstruction for Wavelength-Resolved Neutron Tomography](https://www.mdpi.com/2313-433X/7/1/10)

[Singanallur Venkatakrishnan](https://sciprofiles.com/profile/495987), [Yuxuan Zhang](https://sciprofiles.com/profile/author/WHcvV0UwT1JiSnFVRjAyWTlMTGlMQWZKNGVicEZ5M3Z3YlliT09hYXNoaz0%3D), [Luc Dessieux](https://sciprofiles.com/profile/480203), [Christina Hoffmann](https://sciprofiles.com/profile/author/OWlnRDZvUWFabUNLUUMwc3E4OGVpQ05sYU9HOHBtZWFyeFdCL1BFb1pFUT0%3D), [Philip Bingham](https://sciprofiles.com/profile/author/bzZZSjVHMjZCdXpYcEgxL0hSbnNITUM2RUxIOEx2Wk1lZzIxTjFBQmJrZz0%3D), [Hassina Bilheux](https://sciprofiles.com/profile/343158)

J. Imaging *2021,*7*(1), 10;*[*https://doi.org/10.3390/jimaging7010010*](https://doi.org/10.3390/jimaging7010010)

*Received: 31 October 2020 / Revised: 17 December 2020 / Accepted: 22 December 2020 / Published: 15 January 2021*

[NEURAP—A Dedicated Neutron-Imaging Facility for Highly Radioactive Samples](https://www.mdpi.com/2313-433X/7/3/57)

Eberhard Lehmann, Knud Thomsen, Markus Strobl, Pavel Trtik, Johannes Bertsch, Yong Dai

J. Imaging 2021, 7(3), 57; <https://doi.org/10.3390/jimaging7030057>

*Received: 18 February 2021 / Revised: 9 March 2021 / Accepted: 12 March 2021 /*

*Published: 16 March 2021*

[**Journal of Instrumentation**](https://www.mdpi.com/journal/jimaging) **(1)**

[Artifacts and quantitative biases in neutron tomography introduced by systematic and random errors](https://iopscience.iop.org/journal/1748-0221)

Bradley, J., Pooley, D.E., Kockelmann, W.

*Journal of Instrumentation, Volume 16, Issue 1, January 2021, Article number P01023*

***DOI:****10.1088/1748-0221/16/01/P01023*

[**Journal of Nuclear Materials**](https://www.sciencedirect.com/journal/journal-of-nuclear-materials/vol/544/suppl/C) **(2)**

[Investigation of hydrogen diffusivity in Zr-2.5%Nb alloy pressure tube material using Metallography and Neutron Radiography](https://www.sciencedirect.com/science/article/abs/pii/S0022311520312873)

[Shefali Shukla, Prashant Singh, Tushar Roy, Y.S.Kashyap, Mayank Shukla, R.N.Singh](https://www.sciencedirect.com/science/article/abs/pii/S0022311520312873#!)

[*Journal of Nuclear Materials*](https://www.sciencedirect.com/science/journal/00223115)*,* [*Volume 544*](https://www.sciencedirect.com/science/journal/00223115/544/supp/C)*, February 2021, 152679*

[*https://doi.org/10.1016/j.jnucmat.2020.152679*](https://doi.org/10.1016/j.jnucmat.2020.152679)

[Analysis of erbium diffusion in zirconium-niobium alloys using neutron imaging and laser-induced breakdown spectroscopy](https://www.sciencedirect.com/science/article/abs/pii/S0022311521000921)

[J.Carricondo, S.R.Soria, J.R.Santisteban, N.Kardjilov, M.Iribarren, C.Corvalán-Moya](https://www.sciencedirect.com/science/article/abs/pii/S0022311521000921#!)

[*Journal of Nuclear Materials*](https://www.sciencedirect.com/science/journal/00223115)*,* [*Volume 549*](https://www.sciencedirect.com/science/journal/00223115/549/supp/C)*, June 2021, 152869*

[*https://doi.org/10.1016/j.jnucmat.2021.152869*](https://doi.org/10.1016/j.jnucmat.2021.152869)

[**Journal of Soils and Sediments**](https://www.springer.com/journal/11368) **(1)**

[Non-invasive detection and localization of microplastic particles in a sandy sediment by complementary neutron and X-ray tomography](https://link.springer.com/article/10.1007/s11368-021-02882-6)

Tötzke, C., Oswald, S.E., Hilger, A., Kardjilov, N.

*Journal of Soils and Sediments, Vol. 21, Issue 3, March 2021 pp 1476-1487*

***DOI:****10.1007/s11368-021-02882-6*

[**Materials Letters**](https://www.sciencedirect.com/journal/materials-letters/vol/283/suppl/C) **(1)**

[Visualising water vapour condensation in cracked concrete with dynamic neutron radiography](https://www.sciencedirect.com/science/article/abs/pii/S0167577X20314622)

[Bratislav Lukić, Alessandro Tengattini, Frédéric Dufour, Matthieu Briffaut](https://www.sciencedirect.com/science/article/abs/pii/S0167577X20314622#!)

[*Materials Letters*](https://www.sciencedirect.com/science/journal/0167577X)*,* [*Volume 283*](https://www.sciencedirect.com/science/journal/0167577X/283/supp/C)*, 15 January 2021, 128755* [*https://doi.org/10.1016/j.matlet.2020.128755*](https://doi.org/10.1016/j.matlet.2020.128755)

[**MaterialsToday Advances**](https://www.sciencedirect.com/journal/materials-today-advances/vol/9/suppl/C) **(1)**

[Spectral neutron tomography](https://www.sciencedirect.com/science/article/pii/S2590049821000023)

[K.V.Tran, R.Woracek, N.Kardjilov, H.Markötter, A.Hilger, W.Kockelmann, J.Kelleher, S.B.Puplampu, D.Penumadu, A.S.Tremsin, J.Banhart, I.Manke](https://www.sciencedirect.com/science/article/pii/S2590049821000023#!)

*MaterialsToday Advances,* [*Volume 9*](https://www.sciencedirect.com/science/journal/25900498/9/supp/C)*, March 2021, 100132*

[*https://doi.org/10.1016/j.mtadv.2021.100132*](https://doi.org/10.1016/j.mtadv.2021.100132)

[**Nuclear Instruments and Methods in Physics Research Section A**](https://www.sciencedirect.com/journal/nuclear-instruments-and-methods-in-physics-research-section-a-accelerators-spectrometers-detectors-and-associated-equipment) **(9)**

[Initial development and testing of dysprosium-based scintillators for digital transfer method neutron imaging](https://www.sciencedirect.com/science/article/pii/S0168900220310664)

Aaron E.Craft, William C.Chuirazzi, Christian Grünzweig, Manuel Morgano, Eberhard H.Lehmann

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*

*Volume 985, 1 January 2021, 164669https://doi.org/10.1016/j.nima.2020.164669*

[Simulation design of the collimator for thermal neutron radiography facility based on neutron tube](https://www.sciencedirect.com/science/article/abs/pii/S0168900220310986)

Huanyu Li, Chenyi Zhao, Shuang Qiao, Tian Zhang

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment

Volume 985, 1 January 2021, 164701

https://doi.org/10.1016/j.nima.2020.164701

[Comparison of heuristic and deterministic algorithms in neutron coded imaging reconstruction](https://www.sciencedirect.com/science/article/abs/pii/S0168900220311013)

Mingfei Yan, Huasi Hu, Guang Hu, Zhihua Liu, Chao He, Qiang Yi

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment

Volume 985, 1 January 2021, 164704

https://doi.org/10.1016/j.nima.2020.164704

[Design of a neutron microscope based on Wolter mirrors](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S0168900220312109)

[D.S.Hussey, M.Abir, J.C.Cook, D.L.Jacobson, J.M.LaManna, K.Kilaru, B.D.Ramsey, B.Khaykovich](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S0168900220312109#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

[*Volume 987*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002/987/supp/C)*, 21 January 2021, 164813*

[*https://doi.org/10.1016/j.nima.2020.164813*](https://doi-org.ezproxyd.bham.ac.uk/10.1016/j.nima.2020.164813)

[Improvement in the spatial resolution for imaging with fast neutrons](https://www.sciencedirect.com/science/article/abs/pii/S0168900220312067)

[E.H.Lehmann, D.Mannes, M.Strobl, B.Walfort, A.Losko, B.Schillinger, M.Schulz, S.C.Vogel, D.C.Schaper, D.C.Gautier, D.Newmark](https://www.sciencedirect.com/science/article/abs/pii/S0168900220312067#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

[*Volume 988*](https://www.sciencedirect.com/science/journal/01689002/988/supp/C)*, 1 February 2021, 164809*

[*https://doi.org/10.1016/j.nima.2020.164809*](https://doi.org/10.1016/j.nima.2020.164809)

[New neutron imaging facility at the WWR-SM reactor: Design and first results](https://www.sciencedirect.com/science/article/abs/pii/S0168900220313565)

[B.A.Abdurakhimov, M.Yu.Tashmetov, B.S.Yuldashev, S.E.Kichanov, E.V.Lukin, D.P.Kozlenko, S.A.Kulikov, V.N.Shvetsov](https://www.sciencedirect.com/science/article/abs/pii/S0168900220313565#!), [N.B.Ismatov, A.R.Saidov, A.B.Normurodov, A.V.Rutkauskas](https://www.sciencedirect.com/science/article/abs/pii/S0168900220313565#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

[*Volume 989*](https://www.sciencedirect.com/science/journal/01689002/989/supp/C)*, 11 February 2021, 164959*

[*https://doi.org/10.1016/j.nima.2020.164959*](https://doi.org/10.1016/j.nima.2020.164959)

[Investigation and comparison of neutron image quality using monochromatic and polychromatic beams of Tehran Research Reactor by Monte Carlo simulation](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002138)

[F. Siavoshi Fakhr, H.Jafari, Y.Kasesaz, Z.Gholamzadeh, Z. Aslani Menarebazari](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002138#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

[*Volume 999*](https://www.sciencedirect.com/science/journal/01689002/999/supp/C)*, 21 May 2021, 165229*

[*https://doi.org/10.1016/j.nima.2021.165229*](https://doi.org/10.1016/j.nima.2021.165229)

[A novel energy resolved neutron imaging detector based on TPX3Cam for the CSNS](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002060) Jianqing Yang, Jianrong Zhou, Xingfen Jiang, Jinhao Tan, Lianjun Zhang, Jianjin Zhou, Xiaojuan Zhou,Wenqin Yang,Yuanguang Xia, Jie Chen, XinLi Sun, Quanhu Zhang, Zhijia Sun, Yuanbo Chen

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

*Available online 18 March 2021, 165222*

[*https://doi.org/10.1016/j.nima.2021.165222*](https://doi.org/10.1016/j.nima.2021.165222)

[Application of an added-sinusoid, signal-multiplexing scheme to a compact, multiplexed neutron scatter camera](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002783)

[M.A.Wonders](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002783#!), [M.Flaska](https://www.sciencedirect.com/science/article/abs/pii/S0168900221002783#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/journal/01689002)

*Available online 29 March 2021, 165294*

[*https://doi.org/10.1016/j.nima.2021.165294*](https://doi.org/10.1016/j.nima.2021.165294)

[**Physica B: Condensed Matter**](https://www.sciencedirect.com/journal/physica-b-condensed-matter/vol/603/suppl/C) **(1)**

[An improved reconstruction method for polarimetric neutron tomography](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390)

[Chao Cao](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Sheng Wang](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Wei Yin](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Heyong Huo](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Yang Wu](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Hang Li](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!), [Bin Tan](https://www.sciencedirect.com/science/article/abs/pii/S0921452620307390#!)g

[*Physica B: Condensed Matter*](https://www.sciencedirect.com/science/journal/09214526)*,* [*Volume 603*](https://www.sciencedirect.com/science/journal/09214526/603/supp/C)*, 15 February 2021, 412763*

[*https://doi.org/10.1016/j.physb.2020.412763*](https://doi.org/10.1016/j.physb.2020.412763)

[**Radiation Physics and Chemistry**](https://www.sciencedirect.com/journal/radiation-physics-and-chemistry/vol/181/suppl/C) **(1)**

[Computed tomography combined with a material decomposition technique using a compact deuterium-deuterium (D-D) fast neutron generator](https://www.sciencedirect.com/science/article/pii/S0969806X20313888)

[B.Soubelet, R.Adams, H.-M.Prasser](https://www.sciencedirect.com/science/article/pii/S0969806X20313888#!)

[*Radiation Physics and Chemistry*](https://www.sciencedirect.com/science/journal/0969806X)

[*Volume 181*](https://www.sciencedirect.com/science/journal/0969806X/181/supp/C)*, April 2021, 109296*

[**Scientific Reports**](https://www.nature.com/srep/?gclid=EAIaIQobChMIxM7Y0P-f7AIV2e7tCh2nzwImEAAYASAAEgKqmvD_BwE) **(1)**

[Neutron Bragg-edge transmission imaging for microstructure and residual strain in induction hardened gears](https://www.nature.com/articles/s41598-021-83555-9)

[Su Y](http://europepmc.org/search?query=AUTH:%22Yuhua%20Su%22), [Oikawa K](http://europepmc.org/search?query=AUTH:%22Kenichi%20Oikawa%22), [Shinohara T](http://europepmc.org/search?query=AUTH:%22Takenao%20Shinohara%22), [Kai T](http://europepmc.org/search?query=AUTH:%22Tetsuya%20Kai%22), [Horino T](http://europepmc.org/search?query=AUTH:%22Takashi%20Horino%22), [Idohara O](http://europepmc.org/search?query=AUTH:%22Osamu%20Idohara%22), [Misaka Y](http://europepmc.org/search?query=AUTH:%22Yoshitaka%20Misaka%22), [Tomota Y](http://europepmc.org/search?query=AUTH:%22Yo%20Tomota%22)

*Scientific Reports, 18 Feb 2021, 11(1):4155
DOI:*[*10.1038/s41598-021-83555-9*](http://doi.org/10.1038/s41598-021-83555-9)*PMID: 33603006 PMCID: PMC7892563*

**2020**

Total number of papers listed: 163

[**ACS Applied Energy Materials**](https://pubs.acs.org/toc/aaemcq/3/7) **(1)**

[A Multidimensional Operando Study Showing the Importance of the Electrode Macrostructure in Lithium Sulfur Batteries](https://pubs.acs.org/doi/10.1021/acsaem.0c01027)

Charl J. Jafta, André Hilger, Xiao-Guang Sun, Linxiao Geng, Mengya Li, Sebastian Risse, Ilias Belharouak, Ingo Manke

*ACS Appl. Energy Mater.* *2020, 3, 7, 6965–6976, Publication Date: June 23, 2020*

[*https://doi.org/10.1021/acsaem.0c01027*](https://doi.org/10.1021/acsaem.0c01027)

[**ACS Nano**](https://pubs.acs.org/toc/ancac3/0/0) **(1)**

[Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators](http://europepmc.org/article/MED/32897688)

[McCall KM](http://europepmc.org/authors/0000-0001-8628-3811), [Sakhatskyi K](http://europepmc.org/authors/0000-0003-2384-1665), [Lehmann E](http://europepmc.org/authors/0000-0001-9145-9009), [Walfort B](http://europepmc.org/search?query=AUTH:%22Bernhard%20Walfort%22), [Losko AS](http://europepmc.org/authors/0000-0001-5307-356X), [Montanarella F](http://europepmc.org/authors/0000-0002-9057-7414), [Bodnarchuk MI](http://europepmc.org/authors/0000-0001-6597-3266), [Krieg F](http://europepmc.org/authors/0000-0002-0370-1318), [Kelestemur Y](http://europepmc.org/authors/0000-0003-1616-2728), [Mannes D](http://europepmc.org/authors/0000-0003-4028-7504), [Shynkarenko Y](http://europepmc.org/authors/0000-0002-1587-1752), [Yakunin S](http://europepmc.org/authors/0000-0002-6409-0565), [Kovalenko MV](http://europepmc.org/authors/0000-0002-6396-8938)

*ACS Nano, 18 Sep 2020, DOI:*[*10.1021/acsnano.0c06381*](http://doi.org/10.1021/acsnano.0c06381)*PMID: 32897688*

[**Additive Manufacturing**](https://www.sciencedirect.com/journal/additive-manufacturing) **(1)**

[Investigation of the effect of Laser Shock Peening in Additively Manufactured samples through Bragg Edge Neutron Imaging](https://www.sciencedirect.com/science/article/pii/S221486042030573X)

[M.Morgano](https://www.sciencedirect.com/science/article/pii/S221486042030573X%22%20%5Cl%20%22%21), [N.Kalentics](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [C.Carminati](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [J.Capek](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [M.Makowska](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [R.Woracek](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [T.Maimaitiyili](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!),

[T.Shinohara](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [R.Loge](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!), [M.Strobl](https://www.sciencedirect.com/science/article/pii/S221486042030573X#!)

[Additive Manufacturing](https://www.sciencedirect.com/science/journal/22148604), [Volume 34](https://www.sciencedirect.com/science/journal/22148604/34/supp/C), August 2020, 101201

[**AIP Advances**](https://aip.scitation.org/journal/adv) **(1)**

[Feasibility study of a compact neutron resonance transmission analysis instrument](https://aip.scitation.org/doi/10.1063/1.5129961)

[Ezra M. Engel](https://aip.scitation.org/author/Engel%2C%2BEzra%2BM), [Ethan A. Klein](https://aip.scitation.org/author/Klein%2C%2BEthan%2BA), and [Areg Danagoulian](https://aip.scitation.org/author/Danagoulian%2C%2BAreg)

*AIP Advances 10, 015051 (2020);*[*https://doi.org/10.1063/1.5129961*](https://doi.org/10.1063/1.5129961)

[**Applied Physics Letters**](https://aip.scitation.org/journal/apl) **(2)**

[Neutron imaging of liquid-liquid systems containing paramagnetic salt solutions](https://aip.scitation.org/doi/abs/10.1063/1.5135390)

[T. A. Butcher](https://aip.scitation.org/author/Butcher%2C%2BT%2BA), [G. J. M. Formon](https://aip.scitation.org/author/Formon%2C%2BG%2BJ%2BM), [P. Dunne](https://aip.scitation.org/author/Dunne%2C%2BP), [T. M. Hermans](https://aip.scitation.org/author/Hermans%2C%2BT%2BM), [F. Ott](https://aip.scitation.org/author/Ott%2C%2BF), [L. Noirez](https://aip.scitation.org/author/Noirez%2C%2BL) and [J. M. D. Coey](https://aip.scitation.org/author/Coey%2C%2BJ%2BM%2BD)

*Appl. Phys. Lett. 116, 022405 (2020);*[*https://doi.org/10.1063/1.5135390*](https://doi.org/10.1063/1.5135390)

*January 2020*

[Visualization of compensating currents in type-II/1 superconductor via high field cooling](https://aip-scitation-org.ezproxye.bham.ac.uk/doi/full/10.1063/5.0004438)

[Jacopo Valsecchi](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Valsecchi%2C%2BJacopo), [Jonathan S. White](https://aip-scitation-org.ezproxye.bham.ac.uk/author/White%2C%2BJonathan%2BS), [Marek Bartkowiak](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Bartkowiak%2C%2BMarek), [Wolfgang Treimer](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Treimer%2C%2BWolfgang), [Youngju Kim](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Kim%2C%2BYoungju), [Seung Wook Lee](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Lee%2C%2BSeung%2BWook), [Denis M. Gokhfeld](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Gokhfeld%2C%2BDenis%2BM), [Ralph P. Harti](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Harti%2C%2BRalph%2BP), [Manuel Morgano](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Morgano%2C%2BManuel), [Markus Strobl](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Strobl%2C%2BMarkus) and [Christian Grünzweig](https://aip-scitation-org.ezproxye.bham.ac.uk/author/Gr%C3%BCnzweig%2C%2BChristian)

[*Appl. Phys. Lett.*](https://aip-scitation-org.ezproxye.bham.ac.uk/journal/apl)*116, 192602 (2020);*[*https://doi-org.ezproxye.bham.ac.uk/10.1063/5.0004438*](https://doi-org.ezproxye.bham.ac.uk/10.1063/5.0004438)

[**Applied Radiation and Isotopes**](https://www.sciencedirect.com/journal/applied-radiation-and-isotopes/vol/161/suppl/C) **(1)**

[Neutronic feasibility study of using a multipurpose MNSR for BNCT, NR, and NAA](https://www.sciencedirect.com/science/article/abs/pii/S0969804318307942?via%3Dihub)

[J.Mokhtari, F.Faghihi, M.H. Choopan Dastjerdi, J.Khorsandi](https://www.sciencedirect.com/science/article/abs/pii/S0969804318307942?via%3Dihub#!)

[*Applied Radiation and Isotopes*](https://www.sciencedirect.com/science/journal/09698043)

[*Volume 161*](https://www.sciencedirect.com/science/journal/09698043/161/supp/C)*, July 2020, 109147*

*https://doi.org/10.1016/j.apradiso.2020.109147*

[**Applied Sciences**](https://www.mdpi.com/journal/applsci) **(1)**

[Non-destructive and micro-invasive techniques for characterising the ancient Roman mosaic fragments](https://www.mdpi.com/2076-3417/10/11/3781)

R.M. Ion, B.A. Bakirov, S.E. Kichanov, D.P. Kozlenko, A.V. Belushkin, C. Radulescu, I.D. Dulama, I.A. Bucurica, A.I. Gheboianu, R.M Stirbescu, S. Teodorescu, L. Iancu, M.E. David, R.M Grigorescu

*Applied Sciences, 10(3781), 2020 DOI 10.3390/app10113781*

[**ArXiv**](https://arxiv.org/) **(10)**

Single-Pixel Imaging with Neutrons

 [Yu-Hang He](https://arxiv.org/search/?searchtype=author&query=He%2C+Y), [Yi-Yi Huang](https://arxiv.org/search/?searchtype=author&query=Huang%2C+Y), [Zhi-Rong Zeng](https://arxiv.org/search/?searchtype=author&query=Zeng%2C+Z), [Yi-Fei Li](https://arxiv.org/search/?searchtype=author&query=Li%2C+Y), [Jun-Hao Tan](https://arxiv.org/search/?searchtype=author&query=Tan%2C+J), [Li-Ming Chen](https://arxiv.org/search/?searchtype=author&query=Chen%2C+L), [Ling-An Wu](https://arxiv.org/search/?searchtype=author&query=Wu%2C+L), [Ming-Fei Li](https://arxiv.org/search/?searchtype=author&query=Li%2C+M), [Bao-Gang Quan](https://arxiv.org/search/?searchtype=author&query=Quan%2C+B), [Song-Lin Wang](https://arxiv.org/search/?searchtype=author&query=Wang%2C+S), [Tian-Jiao Liang](https://arxiv.org/search/?searchtype=author&query=Liang%2C+T)

*Submitted 9 January, 2020; originally announced January 2020.*

[*arXiv:2001.03069*](https://arxiv.org/abs/2001.03069)*[*[*pdf*](https://arxiv.org/pdf/2001.03069)*]*

Multilayer 10B-RPC neutron imaging detector

[L. M. S. Margato](https://arxiv.org/search/?searchtype=author&query=Margato%2C+L+M+S), [A. Morozov](https://arxiv.org/search/?searchtype=author&query=Morozov%2C+A), [A. Blanco](https://arxiv.org/search/?searchtype=author&query=Blanco%2C+A), [P. Fonte](https://arxiv.org/search/?searchtype=author&query=Fonte%2C+P), [L. Lopes](https://arxiv.org/search/?searchtype=author&query=Lopes%2C+L), [K. Zeitelhack](https://arxiv.org/search/?searchtype=author&query=Zeitelhack%2C+K), [R. Hall-Wilton](https://arxiv.org/search/?searchtype=author&query=Hall-Wilton%2C+R), [C. Höglund](https://arxiv.org/search/?searchtype=author&query=H%C3%B6glund%2C+C), [L. Robinson](https://arxiv.org/search/?searchtype=author&query=Robinson%2C+L), [S. Schmidt](https://arxiv.org/search/?searchtype=author&query=Schmidt%2C+S), [P. Svensson](https://arxiv.org/search/?searchtype=author&query=Svensson%2C+P)

*Submitted 3 February, 2020; originally announced February 2020.*

[*arXiv:2002.00991*](https://arxiv.org/abs/2002.00991)*[*[*pdf*](https://arxiv.org/pdf/2002.00991)*]*

Dynamic Neutron Imaging of Argon Bubble Flow in Liquid Gallium in External Magnetic Field

Mihails Birjukovs, Valters Dzelme, Andris Jakovics, Knud Thomsen, Pavel Trtik

*Submitted 26 February, 2020;*

[*arXiv:2002.10970v pdf*](https://arxiv.org/pdf/2002.10970v1.pdf)

Microstructure and Water Absorption of Ancient Concrete from Pompeii: An Integrated Synchrotron Microtomography and Neutron Radiography Characterization

[Ke Xu](https://arxiv.org/search/?searchtype=author&query=Xu%2C+K), [Anton S. Tremsin](https://arxiv.org/search/?searchtype=author&query=Tremsin%2C+A+S), [Jiaqi Li](https://arxiv.org/search/?searchtype=author&query=Li%2C+J), [Daniela M. Ushizima](https://arxiv.org/search/?searchtype=author&query=Ushizima%2C+D+M), [Catherine A. Davy](https://arxiv.org/search/?searchtype=author&query=Davy%2C+C+A), [Amine Bouterf](https://arxiv.org/search/?searchtype=author&query=Bouterf%2C+A), [Ying Tsun Su](https://arxiv.org/search/?searchtype=author&query=Su%2C+Y+T), [Milena Marroccoli](https://arxiv.org/search/?searchtype=author&query=Marroccoli%2C+M), [Anna Maria Mauro](https://arxiv.org/search/?searchtype=author&query=Mauro%2C+A+M), [Massimo Osanna](https://arxiv.org/search/?searchtype=author&query=Osanna%2C+M), [Antonio Telesca](https://arxiv.org/search/?searchtype=author&query=Telesca%2C+A), [Paulo J. M. Monteiro](https://arxiv.org/search/?searchtype=author&query=Monteiro%2C+P+J+M)

*Submitted 26 May, 2020; originally announced May 2020*

*https://arxiv.org/abs/2005.13114*

[*arXiv:2005.13114*](https://arxiv.org/abs/2005.13114)*[*[*pdf*](https://arxiv.org/pdf/2005.13114)*]*

Development of a Neutron Imaging Sensor using INTPIX4-SOI Pixelated Silicon Devices

Y. Kamiyaa , T. Miyoshib , H. Iwasec , T. Inadaa , A. Mizushimad , Y. Mitad , K. Shimazoee, H. Tanakaf , I. Kurachig , Y. Araib

[*arXiv:2006.05658v1 [physics.ins-det] 10 Jun 2020*](https://arxiv.org/pdf/2006.05658v1.pdf)

Neutron Dark-Field Imaging with Edge Illumination

Marco Endrizzi, Gibril K. Kallon, Triestino Minniti, Rolf Brönnimann, Alessandro Olivo

[*arXiv:2006.12171v1 [physics.ins-det] 22 Jun 2020*](https://arxiv.org/pdf/2006.12171v1.pdf)

Electric field imaging using polarized neutrons

Yuan-Yu Jau, Daniel S. Hussey, Thomas R. Gentile, Wangchun Chen

[*arXiv:2006.03728*](https://arxiv.org/abs/2006.03728)*[physics.ins-det]*

Feasibility study of a compact Neutron Resonance Transmission Analysis instrument

Ezra M. Engel, Ethan A. Klein, Areg Danagoulian

*arXiv:1909.11120v3 [physics.ins-det] 28 Jan 2020*

Development of High Intensity Neutron Source at the European Spallation Source

V. Santoro ,K.H. Andersen, D. D. DiJulio , E. B. Klinkby, T. M. Miller, D. Milstead, G. Muhrer, M. Strobl, A. Takibayev, L. Zanini , O. Zimmer

[*arXiv:2002.03883v1 [physics.ins-det] 10 Feb 2020*](https://arxiv.org/pdf/2002.03883v1.pdf)

High-resolution neutron imaging: a new approach to characterize water in anodic aluminum oxides

Noémie Ott, Claudia Cancellieri, Pavel Trtik, Patrik Schmutz

[*arXiv:2007.07118*](https://arxiv.org/abs/2007.07118)

[**Cement and Concrete Research**](https://www.sciencedirect.com/journal/cement-and-concrete-research/vol/118/suppl/C) **(1)**

[Time-resolved porosity changes at cement-clay interfaces derived from neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0008884619305800)

[A.Shafizadeh, T.Gimmi, L.R.Van Loon, A.P.Kaestner, U.K.Mäder, S.V.Churakov](https://www.sciencedirect.com/science/article/abs/pii/S0008884619305800#!)

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)[*Volume 127*](https://www.sciencedirect.com/science/journal/00088846/127/supp/C)*, January 2020, 105924*

[*https://doi.org/10.1016/j.cemconres.2019.105924*](https://doi.org/10.1016/j.cemconres.2019.105924)

[**Chemical Engineering Science** **(1)**](https://www.sciencedirect.com/journal/chemical-engineering-science/vol/211/suppl/C)

[Estimation of the local sublimation front velocities from neutron radiography and tomography of particulate matter](https://www.sciencedirect.com/science/article/pii/S0009250919307584?via%3Dihub)

[Gruber S](https://www.mendeley.com/authors/57211264254/), [Vorhauer N](https://www.mendeley.com/authors/36441845400/), [Schulz M](https://www.mendeley.com/authors/57214673506/), [Hilmer M](https://www.mendeley.com/authors/57211270052/), [Peters J](https://www.mendeley.com/authors/57211269378/), [Tsotsas E](https://www.mendeley.com/authors/7003540632/), [Foerst P](https://www.mendeley.com/authors/16549571100/)

*Chemical Engineering Science (2020) 211*

*DOI:*[*10.1016/j.ces.2019.115268*](https://dx.doi.org/10.1016/j.ces.2019.115268)

[**Energy Technology (1)**](https://onlinelibrary.wiley.com/toc/21944296/2020/8/2)

[Influence of the Cell Format on the Electrolyte Filling Process of Lithium-Ion Cells](https://onlinelibrary.wiley.com/doi/full/10.1002/ente.201801108)

[Günter F](https://www.mendeley.com/authors/57204787381/), [Rössler S](https://www.mendeley.com/authors/57208447754/), [Schulz M](https://www.mendeley.com/authors/57214673506/), [Braunwarth W](https://www.mendeley.com/authors/57195903344/), [Gilles R](https://www.mendeley.com/authors/7102269943/), [Reinhart G](https://www.mendeley.com/authors/7101858932/)

*Energy Technology (2020) 8(2)*

*DOI:*[*10.1002/ente.201801108*](https://dx.doi.org/10.1002/ente.201801108)

[**EPJ Web of Conferences**](https://www.epj-conferences.org/) **(7)**

[Fast neutron and γ-ray backscatter radiography for the characterization of corrosion-born defects in oil pipelines](https://www.epj-conferences.org/articles/epjconf/abs/2020/01/epjconf_animma2019_06009/epjconf_animma2019_06009.html)

Mauro Licata, Helen M. O. Parker, Michael D. Aspinall, Manuel Bandala, Frank Cave,

Sebatian Conway, Domas Gerta and Malcolm J. Joyce

*EPJ Web of Conferences*

*Published online: 20 January 2020*

*DOI:*[*https://doi.org/10.1051/epjconf/202022506009*](https://doi.org/10.1051/epjconf/202022506009)

[Preliminary Study on Improving Resolution of D-T Neutron Radiography based on Associated Alpha and Coded Source Imaging Methods](https://www.epj-conferences.org/articles/epjconf/abs/2020/01/epjconf_animma2019_07001/epjconf_animma2019_07001.html)

Sheng Wang, Yang Wu, Heyong Huo, Hang Li, Chunlei Wu, Li An, Bin Tang and Zhenghong Li

*EPJ Web of Conferences*

*Published online: 20 January 2020*

*DOI:*[*https://doi.org/10.1051/epjconf/202022507001*](https://doi.org/10.1051/epjconf/202022507001)

[Design and Optimisation of a Three Layers Thermal Neutron, Fast Neutron and Gamma-Ray Imaging System](https://www.epj-conferences.org/articles/epjconf/abs/2020/01/epjconf_animma2019_07002/epjconf_animma2019_07002.html)

H. Al Hamrashdi, S. D. Monk and D. Cheneler

*EPJ Web of Conferences* ***Volume****225, 2020*

*Published online: 20 January 2020*

*DOI:*[*https://doi.org/10.1051/epjconf/202022507002*](https://doi.org/10.1051/epjconf/202022507002)

[Design and Construction of an Imaging beamline at the Nagoya University Neutron Source](https://www.epj-conferences.org/articles/epjconf/pdf/2020/07/epjconf_ucans82020_05002.pdf) Katsuya Hirota, Shogo Awano, Takuhiro Fujiie, Seiso Fukumura, Mayu Hishida, Go Ichikawa, Sohei Imajo, Ikuya Itoh, Yoshihisa Iwashita, Masaaki Kitaguchi, Yoshiaki Kiyanagi, Yasutoshi Kuriyama, Koki Morikawa, Yudai Niinomi, Hirohiko M. Shimizu, Kazuki Tsuchida, Yusuke Tsuchikwa, Yukio Tsurita, Akira Uritani, Kenichi Watanabe, Yutaka Yamagata, Nana Yamamoto, Atsushi Yamazaki, Sachiko Yoshihashi and Tamaki Yoshioka

*EPJ Web of Conferences 231, 05002 (2020)*

*https://doi.org/10.1051/epjconf/202023105002*

[Scalable Neutron Imaging Systems at Compact Sources](https://www.epj-conferences.org/articles/epjconf/abs/2020/07/epjconf_ucans82020_05006/epjconf_ucans82020_05006.html)

Knud Thomsen, Eberhard Lehmann, and Markus Strobl

*EPJ Web of Conferences 231, 05006 (2020)*

[*https://doi.org/10.1051/epjconf/202023105006*](https://doi.org/10.1051/epjconf/202023105006)

[Reconstruction on fast neutron CT for concrete structure inspection with a pixel-type detector by applying linear scanning method](https://www.epj-conferences.org/articles/epjconf/abs/2020/07/epjconf_ucans82020_05008/epjconf_ucans82020_05008.html)

Mingfei Yan, Yasuo Wakabayashi, Yoshie Otake, Yujiro Ikeda, Atsushi Taketani, Takao Hashiguchi, Sheng Wang, Binbin Tian , Takaoki Takanashi, Tomohiro Kobayashi, Baolong Ma

*EPJ Web of Conferences 231, 05008 (2020)*

*DOI: 10.1051/epjconf/202023105008 ISSN: 2100-014X*

[Neutron imaging at the n\_TOF facility of CERN](https://www.epj-conferences.org/articles/epjconf/pdf/2020/15/epjconf_nd2019_01042.pdf)

M. Bacak, F. Mingrone, M. Calviani, C. Torregrosa Martin, O. Aberle, E. Chiaveri, E. Fornasiere, A. Perillo-Marcone, V. Vlachoudis and the n\_TOF Collaboration

*EPJ Web of Conferences 239, 01042 (2020)*

*https://doi.org/10.1051/epjconf/2e02023901042*

[**The European Physical Journal Plus**](https://www.springer.com/journal/13360) **(1)**

[Non-invasive characterization of ancient Indonesian Kris through neutron methods](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2)

[Filomena Salvemini](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Filomena-Salvemini), [Francesco Grazzi](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Francesco-Grazzi), [Nikolay Kardjilov](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Nikolay-Kardjilov), [Ingo Manke](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Ingo-Manke), [Antonella Scherillo](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Antonella-Scherillo), [Maria Gloria Roselli](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Maria_Gloria-Roselli) & [Marco Zoppi](https://link.springer.com/article/10.1140/epjp/s13360-020-00452-2#auth-Marco-Zoppi)

[*European Physical Journal Plus*](https://www.researchgate.net/journal/European-Physical-Journal-Plus-2190-5444)*135(6), June 2020*

*DOI:*[*10.1140/epjp/s13360-020-00452-2*](http://dx.doi.org/10.1140/epjp/s13360-020-00452-2)

[**Frontiers in Earth Science**](https://www.frontiersin.org/journals/earth-science) **(1)**

[Editorial: Recent Advancements in X-Ray and Neutron Imaging of Dynamic Processes in Earth Sciences](https://www.frontiersin.org/articles/10.3389/feart.2020.588463/full)

[Lucia Mancini](https://www.frontiersin.org/people/u/588712), [Fabio Arzilli](https://www.frontiersin.org/people/u/366888), [Margherita Polacci](https://www.frontiersin.org/people/u/88341) and [Marco Voltolini](https://www.frontiersin.org/people/u/589130)

*Front. Earth Sci., 11 September 2020,*[*https://doi.org/10.3389/feart.2020.588463*](https://doi.org/10.3389/feart.2020.588463)

[**Frontiers in Ecology and Evolution**](https://www.frontiersin.org/articles/10.3389/fevo.2020.00042/full) **(1)**

[When X-Rays Do Not Work. Characterizing the Internal Structure of Fossil Hominid Dentognathic Remains Using High-Resolution Neutron Microtomographic Imaging](https://www.frontiersin.org/articles/10.3389/fevo.2020.00042/full)

[Clément Zanolli](https://www.frontiersin.org/people/u/798055), [Burkhard Schillinger](https://www.frontiersin.org/people/u/766477), Ottmar Kullmer, Friedemann Schrenk, [Jay Kelley](https://www.frontiersin.org/people/u/898461), [Gertrud E. Rössner](https://www.frontiersin.org/people/u/904863), Roberto Macchiarelli

*Front. Ecol. Evol., 27 February 2020 |*[*https://doi.org/10.3389/fevo.2020.00042*](https://doi.org/10.3389/fevo.2020.00042)

[**Fusion Engineering and Design**](https://www.sciencedirect.com/journal/fusion-engineering-and-design) **(2)**

[An effective gamma white spots removal method for CCD-based neutron images denoising](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713)

[Chenyi Zhao](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713#!), [Yue Yan](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713#!), [Huanyu Li](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713#!), [Tian Zhang](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713#!), [Shuang Qiao](https://www.sciencedirect.com/science/article/abs/pii/S0920379619308713#!)

[*Fusion Engineering and Design*](https://www.sciencedirect.com/science/journal/09203796)[*Volume 150*](https://www.sciencedirect.com/science/journal/09203796/150/supp/C)*, January 2020, 111375*

[*https://doi.org/10.1016/j.fusengdes.2019.111375*](https://doi.org/10.1016/j.fusengdes.2019.111375)

[White spots noise removal of neutron images using improved robust principal component analysis](https://www.sciencedirect.com/science/article/abs/pii/S0920379620302878)

[Chenyi Zhao](https://www.sciencedirect.com/science/article/abs/pii/S0920379620302878#!), [Yue Yan](https://www.sciencedirect.com/science/article/abs/pii/S0920379620302878#!), [Yanmei Wang](https://www.sciencedirect.com/science/article/abs/pii/S0920379620302878#!), [Shuang Qiao](https://www.sciencedirect.com/science/article/abs/pii/S0920379620302878#!)

[*Fusion Engineering and Design*](https://www.sciencedirect.com/science/journal/09203796)

[*Volume 156*](https://www.sciencedirect.com/science/journal/09203796/156/supp/C)*, July 2020, 111739*

[*https://doi.org/10.1016/j.fusengdes.2020.111739*](https://doi.org/10.1016/j.fusengdes.2020.111739)

[**Geomechanics for Energy and the Environment**](https://www.sciencedirect.com/journal/geomechanics-for-energy-and-the-environment) **(1)**

[Neutron imaging for geomechanics: A review](https://www.sciencedirect.com/science/article/pii/S2352380820300605)

[Alessandro Tengattini, Nicolas Lenoir, Edward Andò, Gioacchino Viggiani](https://www.sciencedirect.com/science/article/pii/S2352380820300605#!)

[*Geomechanics for Energy and the Environment*](https://www.sciencedirect.com/science/journal/23523808)

*Available online 18 July 2020, 100206*

[*https://doi.org/10.1016/j.gete.2020.100206*](https://doi.org/10.1016/j.gete.2020.100206)

[**High Energy Density Physics**](https://www.sciencedirect.com/journal/high-energy-density-physics) **(1)**

[The avalanche image intensifier panel for fast neutron radiography by using laser-driven neutron sources](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X)

[R.Mizutani,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [Y.Abe,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [Y.Arikawa,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [J.Nishibata, A.Yogo,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [S.R.Mirfayzi,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [H.Nishimura,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [K.Mima,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [S.Fujioka, M.Nakai,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [H.Shiraga,](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21) [R.Kodama](https://www.sciencedirect.com/science/article/abs/pii/S157418182030077X%22%20%5Cl%20%22%21)

[*High Energy Density Physics*](https://www.sciencedirect.com/science/journal/15741818)[*Volume 36*](https://www.sciencedirect.com/science/journal/15741818/36/supp/C)*, August 2020, 100833*

[*https://doi.org/10.1016/j.hedp.2020.100833*](https://doi.org/10.1016/j.hedp.2020.100833)

[**IEICE Transactions on Electronics**](https://www.jstage.jst.go.jp/browse/transele/-char/en) **(1)**

[Superconducting Neutron Detectors and Their Application to Imaging](https://www.jstage.jst.go.jp/article/transele/E103.C/5/E103.C_2019SEI0002/_article)

[Takekazu ISHIDA](https://www.jstage.jst.go.jp/search/global/_search/-char/en?item=8&word=Takekazu+ISHIDA)

*IEICE Transactions on Electronics, 2020 Volume E103.C Issue 5 Pages 198-203*

[**International Journal of Hydrogen Energy**](https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy) **(1)**

Characterization of water management in metal foam flow-field based polymer electrolyte fuel cells using *in-operando* neutron radiography

[Y.Wu](https://www.sciencedirect.com/science/article/abs/pii/S0360319919342508?via%3Dihub#!), [J.I.S.Cho, M.Whiteley, L.Rasha, T.P.Neville, R.Ziesche](https://www.sciencedirect.com/science/article/abs/pii/S0360319919342508?via%3Dihub#!), [R.Xu, R.Owen, N.Kulkarni](https://www.sciencedirect.com/science/article/abs/pii/S0360319919342508?via%3Dihub#!), [J.Hack, M.Maier, N.Kardjilov, H.Markötter, I.Manke, F.R.Wang,](https://www.sciencedirect.com/science/article/abs/pii/S0360319919342508?via%3Dihub#!) [P.R.Shearing.](https://www.sciencedirect.com/author/24178516700/paul-robert-shearing) [D.J.L.Bret](https://www.sciencedirect.com/science/article/abs/pii/S0360319919342508?via%3Dihub#!)

[*International Journal of Hydrogen Energy*](https://www.sciencedirect.com/science/journal/03603199)*,* [*Volume 45, Issue 3*](https://www.sciencedirect.com/science/journal/03603199/45/3)*, 13 January 2020, Pages 2195-2205*

[*https://doi.org/10.1016/j.ijhydene.2019.11.069*](https://doi.org/10.1016/j.ijhydene.2019.11.069)

[**International Journal of Materials Research**](https://www.degruyter.com/journal/key/IJMR/html)  **(1)**

[Investigation of the 3D hydrogen distribution in zirconium alloys by means of neutron tomography](https://www.degruyter.com/document/doi/10.3139/146.111863/html)

M. Grosse, B. Schillinger, P. Trtik, N. Kardjilov and M. Steinbrück

*International Journal of Materials Research, Vol. 111 Issue 1, DOI:*[*https://doi.org/10.3139/146.111863*](https://doi.org/10.3139/146.111863)

[**ISIJ International**](https://www.jstage.jst.go.jp/browse/isijinternational)  **(1)**

[Simultaneous Broadening Analysis of Multiple Bragg Edges Observed by Wavelength-resolved Neutron Transmission Imaging of Deformed Low-carbon Ferritic Steel](https://www.jstage.jst.go.jp/article/isijinternational/advpub/0/advpub_ISIJINT-2019-656/_article)

Hirotaka Sato, Kenji Iwase, Takashi Kamiyama and Yoshiaki Kiyanagi

*ISIJ International, DOI: 10.2355/isijinternational.ISIJINT-2019-656*

*Received on October 10, 2019; accepted on November 27, 2019; J-STAGE Advance published date: January 17, 2020*

[**IUCrJ**](https://journals.iucr.org/m/) **(1)**

[Neutron sub-micrometre tomography from scattering data](https://journals.iucr.org/m/issues/2020/05/00/fs5187/index.html)

[B. Heacock](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Heacock%2C%20B%2E),[D. Sarenac](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Sarenac%2C%20D%2E), [D. G. Cory](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Cory%2C%20D%2EG%2E), [M. G. Huber](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Huber%2C%20M%2EG%2E), [J. P. W. MacLean](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=MacLean%2C%20J%2EP%2EW%2E), [H. Miao](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Miao%2C%20H%2E), [H. Wen](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Wen%2C%20H%2E) and [D. A. Pushin](http://scripts.iucr.org/cgi-bin/citedin?search_on=name&author_name=Pushin%2C%20D%2EA%2E)

*IUCrJ* [*Volume 7*](https://journals.iucr.org/m/services/archive.html)*|*[*Part 5*](https://journals.iucr.org/m/issues/2020/05/00/index.html)*|*[*September 2020*](https://journals.iucr.org/m/issues/2020/05/00/index.html)*| Pages 893-900*

*ISSN: 2052-2525* [*https://doi.org/10.1107/S2052252520010295*](https://doi.org/10.1107/S2052252520010295)

[**Journal of Crystal Growth**](https://www.sciencedirect.com/journal/journal-of-crystal-growth) **(1)**

[Computational modeling and neutron imaging to understand interface shape and solute segregation during the vertical gradient freeze growth of BaBrCl:Eu](https://www.sciencedirect.com/science/article/pii/S0022024820300956)

[Jeffrey J.Derby, Chang Zhang, Jan Seebeck, Jeffrey H.Peterson, Anton S.Tremsin, Didier Perrodin, Gregory A.Bizarri, Edith D.Bourret, Adrian S.Losko, Sven C.Vogel](https://www.sciencedirect.com/science/article/pii/S0022024820300956#!)

[*Journal of Crystal Growth*](https://www.sciencedirect.com/science/journal/00220248)[*Volume 536*](https://www.sciencedirect.com/science/journal/00220248/536/supp/C)*, 15 April 2020, 125572*

[*https://doi.org/10.1016/j.jcrysgro.2020.125572*](https://doi.org/10.1016/j.jcrysgro.2020.125572)

[**Journal of Colloid and Interface Science**](https://www.sciencedirect.com/journal/journal-of-colloid-and-interface-science) **(1)**

[Imbibition and structure of silica nanoporous media characterized by neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0021979720300667?via%3Dihub).

[Léang M](http://europepmc.org/search?query=AUTH:%22Marguerite%20L%C3%A9ang%22), [Ott F](http://europepmc.org/search?query=AUTH:%22Fr%C3%A9d%C3%A9ric%20Ott%22), [Giorgiutti-Dauphiné F](http://europepmc.org/search?query=AUTH:%22Fr%C3%A9d%C3%A9rique%20Giorgiutti-Dauphin%C3%A9%22), [Pauchard L](http://europepmc.org/search?query=AUTH:%22Ludovic%20Pauchard%22), [Lee LT](http://europepmc.org/search?query=AUTH:%22Lay-Theng%20Lee%22)

*Journal of Colloid and Interface Science, 17 Jan 2020, 565:474-482
DOI:*[*10.1016/j.jcis.2020.01.052*](http://doi.org/10.1016/j.jcis.2020.01.052)*PMID: 31982714*

[**Journal of the Electrochemical Society**](https://iopscience.iop.org/journal/1945-7111) **(1)**

[4D Neutron and X-ray Tomography Studies of High Energy Density Primary Batteries: Part II. Multi-Modal Microscopy of LiSOCl2 Cells](https://iopscience.iop.org/article/10.1149/1945-7111/abbfd9)

Ralf F. Ziesche, James B. Robinson, Henning Markötter, Robert Bradbury, Alessandro Tengattini, Nicolas Lenoir, Lukas Helfen, Winfried Kockelmann, Nikolay Kardjilov, Ingo Manke, Dan J. L. Brett and Paul R. Shearing

[*Journal of The Electrochemical Society*](https://iopscience.iop.org/journal/1945-7111)*,*[*Volume 167*](https://iopscience.iop.org/volume/1945-7111/167)*,*[*Number 14*](https://iopscience.iop.org/issue/1945-7111/167/14)*, 140509*

[**Journal of Energy Storage**](https://www.journals.elsevier.com/journal-of-energy-storage) **(1)**

[In-situ neutron imaging study of NH3 absorption and desorption in SrCl2 within a heat storage prototype reactor](https://www.sciencedirect.com/science/article/pii/S2352152X19317311)

Perizat Berdiyeva, Anastasiia Karabanova, Malgorzata G Makowska, [Rune E.Johnsen, Didier Blanchard, Bjørn C.Hauback, Stefano Deledda](https://www.sciencedirect.com/science/article/pii/S2352152X19317311#!)

*Journal of Energy Storage, 2020, Vol 29*

*DOI: 10.1016/j.est.2020.101388*

[**Journal of Imaging**](https://doaj.org/toc/2313-433X?source=%7B%22query%22%3A%7B%22filtered%22%3A%7B%22filter%22%3A%7B%22bool%22%3A%7B%22must%22%3A%5B%7B%22terms%22%3A%7B%22index.issn.exact%22%3A%5B%222313-433X%22%5D%7D%7D%2C%7B%22term%22%3A%7B%22_type%22%3A%22article%22%7D%7D%25) **(11)**

[Energy Resolved Neutron Imaging for Strain Reconstruction Using the Finite Element Method](https://www.mdpi.com/2313-433X/6/3/13)

Riya Aggarwal; Michael H. Meylan; Bishnu P. Lamichhane; Chris M. Wensrich

J. Imaging*2020,*6*(3), 13;*[*https://doi.org/10.3390/jimaging6030013*](https://doi.org/10.3390/jimaging6030013)

[On the Genesis of Artifacts in Neutron Transmission Imaging of Hydrogenous Steel Specimens](https://www.mdpi.com/2313-433X/6/4/22)

[Beate Pfretzschner](https://sciprofiles.com/profile/340955), [Thomas Schaupp](https://sciprofiles.com/profile/author/dXA0WFJoNXo3MUxmaDZXQWZISEF1YnNIaGU1Zm1ZcjEwQll6QUkvMjVsND0%3D), [Andreas Hannemann](https://sciprofiles.com/profile/author/b1VFZU1idVNUcnVseHJLWSthNmN3aTJ3RXdRWkd5UmJ6aGxlL0w5dGo0UT0%3D), [Michael Schulz](https://sciprofiles.com/profile/1030999),[Axel Griesche](https://sciprofiles.com/profile/1014303)

J. Imaging 2020, 6(4), 22; <https://doi.org/10.3390/jimaging6040022>

[On a Method For Reconstructing Computed Tomography Datasets from an Unstable Source](https://www.mdpi.com/2313-433X/6/5/35)

[Nicholas Stull](https://sciprofiles.com/profile/797087), [Josh McCumber](https://sciprofiles.com/profile/1067008), [Lawrence D'Aries](https://sciprofiles.com/profile/author/anBLR0hiZGxGR3AvR3BDMmpZemRuNHFRQjVFcHFpZXNBQ21jNy9LUVhtRT0%3D), [Michelle Espy](https://sciprofiles.com/profile/394102), [Cort Gautier](https://sciprofiles.com/profile/author/Ry9GMjlMQWl3d2JHMzdaSnJOOUZLd1FHRzBQNjBQTWdBcTZ2OHp5a3RUaz0%3D), [James Hunter](https://sciprofiles.com/profile/364261)

J. Imaging 2020, 6(5), 35; <https://doi.org/10.3390/jimaging6050035>

[The Reconstruction of a Bronze Battle Axe and Comparison of Inflicted Damage Injuries Using Neutron Tomography, Manufacturing Modeling, and X-ray Microtomography Data](https://www.mdpi.com/2313-433X/6/6/45)

Mar[ia Mednikova](https://sciprofiles.com/profile/1053470), [Irina Saprykina](https://sciprofiles.com/profile/author/V0xQdnpmNktJbGo1bUZUTys0S2dFUT09), [Sergey Kichanov](https://sciprofiles.com/profile/335125),[Denis Kozlenko](https://sciprofiles.com/profile/author/UXR3b0dIL0lsdEN1TU1EbGw5MnJWdz09)

J. Imaging 2020, 6(*6), 45;*[*https://doi.org/10.3390/jimaging6060045*](https://doi.org/10.3390/jimaging6060045)

[Measuring Thickness-Dependent Relative Light Yield and Detection Efficiency of Scintillator Screens](https://www.mdpi.com/2313-433X/6/7/56)

[William C. Chuirazzi](https://sciprofiles.com/profile/1090548) and [Aaron E. Craft](https://sciprofiles.com/profile/author/YUVSUXJHTHhoUXkvYkN5YTkxdGk2NVNzUGNKOUxGcjIxYmdtMXRYeWkyOD0%3D)

J. Imaging 2020, 6(*7), 56;*[*https://doi.org/10.3390/jimaging6070056*](https://doi.org/10.3390/jimaging6070056)

*Received: 10 June 2020 / Revised: 23 June 2020 / Accepted: 25 June 2020 / Published: 29 June 2020*

[Design of Neutron Microscopes Equipped with Wolter Mirror Condenser and Objective Optics for High-Fidelity Imaging and Beam Transport](https://www.mdpi.com/2313-433X/6/10/100)

[Muhammad Abir](https://sciprofiles.com/profile/331983), [Daniel S. Hussey](https://sciprofiles.com/profile/327520), [Boris Khaykovich](https://sciprofiles.com/profile/879750)

J. Imaging 2020, 6(*10), 100;*[*https://doi.org/10.3390/jimaging6100100*](https://doi.org/10.3390/jimaging6100100)

*Received: 18 June 2020 / Revised: 17 September 2020 / Accepted: 24 September 2020 / Published: 27 September 2020*

[Neutron Radiography and Tomography of the Drying Process of Screed Samples](https://www.mdpi.com/2313-433X/6/11/118)

[Lorenz Kapral](https://sciprofiles.com/profile/1045191), [Michael Zawisky](https://sciprofiles.com/profile/1276939), [Hartmut Abele](https://sciprofiles.com/profile/author/SmQ3TllGdFlDZHVPaFhTd1IwYmg4NzV3OXhBT0lBTEZlZXdySWxOa1A5bz0%3D)

J. Imaging *2020,*6*(11), 118;*[*https://doi.org/10.3390/jimaging6110118*](https://doi.org/10.3390/jimaging6110118)

[Boron-Based Neutron Scintillator Screens for Neutron Imaging](https://www.mdpi.com/2313-433X/6/11/124)

[William Chuirazzi](https://sciprofiles.com/profile/1090548), [Aaron Craft](https://sciprofiles.com/profile/1345697), [Burkhard Schillinger](https://sciprofiles.com/profile/336702), [Steven Cool](https://sciprofiles.com/profile/1338814), [Alessandro Tengattini](https://sciprofiles.com/profile/1347307)

J. Imaging *2020,*6*(11), 124;*[*https://doi.org/10.3390/jimaging6110124*](https://doi.org/10.3390/jimaging6110124)

[A Fast Neutron Radiography System Using a High Yield Portable DT Neutron Source](https://www.mdpi.com/2313-433X/6/12/128)

[David L. Williams](https://sciprofiles.com/profile/1052041), [Craig M. Brown](https://sciprofiles.com/profile/author/anhaaHp4U3kxZ3QydmM5N2ZEL2hkYXdqamZXWWFWa3Blc1R0NTBEMy9FND0%3D), [David Tong](https://sciprofiles.com/profile/1358550), [Alexander Sulyman](https://sciprofiles.com/profile/author/bW5WdHlYZi8zRmpZVVlQK0owbElZUnFOaDR1TXU2enNUSC9xT3ZiVHlPRT0%3D), [Charles K. Gary](https://sciprofiles.com/profile/author/WGJoc3NEWDdoQ2ZqSDBqeGgveFFKbmV6YnRNMXJTQkxBZkV5Wit2TStGYz0%3D)

J. Imaging *2020,*6*(12), 128;*[*https://doi.org/10.3390/jimaging6120128*](https://doi.org/10.3390/jimaging6120128)

[Light Yield Response of Neutron Scintillation Screens to Sudden Flux Changes](https://www.mdpi.com/2313-433X/6/12/134)

[Tobias Neuwirth](https://sciprofiles.com/profile/1318359), [Bernhard Walfort](https://sciprofiles.com/profile/1340385), [Simon Sebold](https://sciprofiles.com/profile/1340302), [Michael Schulz](https://sciprofiles.com/profile/1030999)

J. Imaging *2020,*6*(12), 134;*[*https://doi.org/10.3390/jimaging6120134*](https://doi.org/10.3390/jimaging6120134)

[4D Bragg Edge Tomography of Directional Ice Templated Graphite Electrodes](https://www.mdpi.com/2313-433X/6/12/136)

[Ralf F. Ziesche](https://sciprofiles.com/profile/author/N2JiSytLK2ZWb25QOEpmYnJmbmRxd2dhSmVRcDEwNlZwaUNzQjRQSWhCcz0%3D), [Anton S. Tremsin](https://sciprofiles.com/profile/author/eFcrT0REcTcwdWR1V2xsQjBDVFh1Wjc1d2xwQVVXQkdzWGJvZzJ2MERTZz0%3D), [Chun Huang](https://sciprofiles.com/profile/author/ZUt5K0h2Y3RWRmMxaTdsQW83aVNzd2o1ZkhhRU9pUG9pcFNkektZWm4xVT0%3D), [Chun Tan](https://sciprofiles.com/profile/1367245), [Patrick S. Grant](https://sciprofiles.com/profile/1369417), [Malte Storm](https://sciprofiles.com/profile/1357353), [Dan J. L. Brett](https://sciprofiles.com/profile/134224), [Paul R. Shearing](https://sciprofiles.com/profile/527123), [Winfried Kockelmann](https://sciprofiles.com/profile/367674)

J. Imaging *2020,*6*(12), 136;*[*https://doi.org/10.3390/jimaging6120136*](https://doi.org/10.3390/jimaging6120136)

[**Journal of the Korean Society of Visualization**](http://www.koreascience.or.kr/journal/GSSGB0.page) **(1)**

[Research for development of our own image processing code for neutron tomography](http://www.koreascience.or.kr/article/JAKO202013965593746.page)

Kim, Jin Man; Kim, TaeJoo; Yu, Dong In

[*Journal of the Korean Society of Visualization*](http://www.koreascience.or.kr/journal/GSSGB0.page)

[*Volume 18 Issue 1*](http://www.koreascience.or.kr/journal/GSSGB0/v18n1.page) *Pages.44-49/2020/1598-8430(pISSN)/2093-808X(eISSN)*

[*https://doi.org/10.5407/jksv.2020.18.1.044*](https://doi.org/10.5407/jksv.2020.18.1.044)

[**Journal of Materials Science**](https://www.springer.com/journal/10853) **(1)**

[Imaging of boron distribution in steel with neutron radiography and tomography](https://pubag.nal.usda.gov/catalog/6877424)

[Di Luozzo, Nicolás](https://pubag.nal.usda.gov/?q=%22Di+Luozzo%2C+Nicol%C3%A1s%22&search_field=author), [Schulz, Michael](https://pubag.nal.usda.gov/?q=%22Schulz%2C+Michael%22&search_field=author), [Fontana, Marcelo](https://pubag.nal.usda.gov/?q=%22Fontana%2C+Marcelo%22&search_field=author)

[*Journal of Materials Science 2020 v.55 no.18*](https://pubag.nal.usda.gov/?f%5Bjournal_name%5D%5B%5D=Journal+of+materials+science&f%5Bpublication_year_rev%5D%5B%5D=7980-2020&f%5Bsource%5D%5B%5D=2020+v.55+no.18)

*pp. 7927-7937, 0022-2461*

[**Journal of Physics: Conference Series**](https://iopscience.iop.org/journal/1742-6596) **(2)**

[Characterization of porosity inside limestone as a reservoir of oil using neutron tomography](https://iopscience.iop.org/article/10.1088/1742-6596/1436/1/012007/pdf)

B. Bharoto, A. Ramadhani, F. Akbar, S. G. Sukaryo, T. H. Priyanto, M. Kurniati and F. A. Fadhila

J. Phys.: Conf. Ser. *1436* *012007, 2020*[*https://doi.org/10.1088/1742-6596/1436/1/012007*](https://doi.org/10.1088/1742-6596/1436/1/012007)

Ne[utron tomography study of a lithium-ion coin battery](https://iopscience.iop.org/article/10.1088/1742-6596/1436/1/012029)

Yustinus Purwamargapratala, Sudaryanto and dan Fahrurrozi Akbar

J. Phys.: Conf. Ser. *1436 012029, 2020*[*https://doi.org/10.1088/1742-6596/1436/1/012029*](https://doi.org/10.1088/1742-6596/1436/1/012029)

[**Journal of Power Sources**](https://www.journals.elsevier.com/journal-of-power-sources/) **(2)**

[Mass transport in polymer electrolyte membrane water electrolyser liquid-gas diffusion layers: A combined neutron imaging and X-ray computed tomography study](https://www.sciencedirect.com/science/article/abs/pii/S0378775320302718)

[M.Maier, J.Dodwell, R.Ziesche, C.Tan, T.Heenan, J.Majasan, N.Kardjilov, H.Markötter, I.Manke, L.Castanheira, G.Hinds, P.R.Shearing, D.J.L.Brett](https://www.sciencedirect.com/science/article/abs/pii/S0378775320302718#!)

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)[*Volume 455*](https://www.sciencedirect.com/science/journal/03787753/455/supp/C)*, 15 April 2020, 227968*

[*https://doi.org/10.1016/j.jpowsour.2020.227968*](https://doi.org/10.1016/j.jpowsour.2020.227968)

[Understanding water management in platinum group metal-free electrodes using neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0378775320307461?via%3Dihub)

Siddharth Komini Babua, DusanSpernjak, Rangachary Mukundan, Daniel S.Hussey, David L.Jacobson, Hoon T.Chung, GangWu, Andrew J.Steinbach, Shawn Litster, Rod L.Borup, Piotr Zelenaya

*Journal of Power Sources, Volume 472, 1 October 2020, 228442, https://doi.org/10.1016/j.jpowsour.2020.228442*

[**Materials**](https://www.mdpi.com/journal/materials) **(1)**

[Neutron Diffraction and Diffraction Contrast Imaging for Mapping the TRIP Effect under Load Path Change](https://www.mdpi.com/1996-1944/13/6/1450)

Polatidis E; Morgano M; Malamud F; Bacak M; Panzner T; Van Swygenhoven H; Strobl M.

Materials*2020,*13*(6), 1450;*[*https://doi.org/10.3390/ma13061450*](https://doi.org/10.3390/ma13061450)

[**Materials Characterization**](https://www.sciencedirect.com/journal/materials-characterization/vol/166/suppl/C) **(1)**

[Determination of martensite content and mapping phase distribution on Austempered Ductile Iron using energy-selective neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S1044580320319240)

[S.R.Soria, X.H.Li, M.Schulz, M.Boin, M.Hofmann](https://www.sciencedirect.com/science/article/abs/pii/S1044580320319240#!)

[*Materials Characterization*](https://www.sciencedirect.com/science/journal/10445803)

[*Volume 166*](https://www.sciencedirect.com/science/journal/10445803/166/supp/C)*, August 2020, 11045*

[*https://doi.org/10.1016/j.matchar.2020.110453*](https://doi.org/10.1016/j.matchar.2020.110453)

[**Materials and Design**](https://www.sciencedirect.com/journal/materials-and-design) **(1)**

[Neutron dark-field imaging applied to porosity and deformation-induced phase transitions in additively manufactured steels](https://www.sciencedirect.com/science/article/pii/S0264127520305438)

[M.Bacak](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [J.Valsecchi](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [J.Čapek](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [E.Polatidis](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!) [A.Kaestner](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [A.Arabi-Hashemi](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [I.Kruk](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [C.Leinenbach](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [A.M.Long](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [A.Tremsin](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [S.C.Vogel](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [E.B.Watkins](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!), [M.Strobl](https://www.sciencedirect.com/science/article/pii/S0264127520305438#!)

[*Materials & Design*](https://www.sciencedirect.com/science/journal/02641275)*,* [*Volume 195*](https://www.sciencedirect.com/science/journal/02641275/195/supp/C)*, October 2020, 109009*

[*https://doi.org/10.1016/j.matdes.2020.109009*](https://doi.org/10.1016/j.matdes.2020.109009)

[**Materials Letters**](https://www.sciencedirect.com/journal/materials-letters) **(1)**

[Visualization of magnetic domain structure in FeSi based high permeability steel plates by neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0167577X19314478)

[I.Dhiman, R.Ziesche, L.Riik, I.Manke, A.Hilger, B.Radhakrishnan, T.Burress, W.Treimer](https://www.sciencedirect.com/science/article/abs/pii/S0167577X19314478#!)

[*Materials Letters*](https://www.sciencedirect.com/science/journal/0167577X)*,* [*Volume 259*](https://www.sciencedirect.com/science/journal/0167577X/259/supp/C)*, 15 January 2020, 126816*

[*https://doi.org/10.1016/j.matlet.2019.126816*](https://doi.org/10.1016/j.matlet.2019.126816)

[**Materials Research Proceedings**](https://www.mrforum.com/mrp/) **(47)**

[Volume 15 (2020) pdf](https://www.mrforum.com/product/neutron-radiography/)

**What Future in Neutron Imaging?**

Eberhard H. Lehmann, Danas Ridikas, Nuno Pessoa Barradas .......................................... 3

**Overview of the Conceptual Design of the Upgraded Neutron Radiography Facility**

**(INDLOVU) at the SAFARI-1 Research Reactor in South Africa**

Frikkie de Beer, Tankiso Modise, Robert Nshimirimana, Deon Marais, Christo Raaths,

Rudolph van Heerden, Kobus Eckard, Evens Moraba, Johann van Rooyen, Gerhard Schalkwyk,

Jacoline Hanekom, Gawie Nothnagel ................................................................................. 11

**Reviving and Extending the Neutron Imaging Capabilities at the Penn State**

**Breazeale Reactor**

Robert Zboray ..................................................................................................................... 17

**PSI ‘Neutron Microscope’ at ILL-D50 Beamline - First Results**

Pavel Trtik, Michael Meyer, Timon Wehmann, Alessandro Tengattini, Duncan Atkins, E.H.

Lehmann, Markus Strobl ..................................................................................................... 23

**Wavelength-Resolved Neutron Imaging on IMAT**

W. Kockelmann, T. Minniti, R. Ramadhan, R. Ziesche, D.E. Pooley, S.C. Capelli, D. Glaser,

A.S. Tremsin ....................................................................................................................... 29

**Energy Resolved Imaging using the GP2 Detector: Progress in Instrumentation,**

**Methods and Data Analysis**

D.E. Pooley, J.W.L. Lee, F.A. Akeroyd, O. Arnold, M. Hart, J.J. John, P.M. Kadletz, W.

Kockelmann, T. Minniti, C. Moreton-Smith, M. Morgano, N.J. Rhodes, E.M. Schooneveld,

I.Sedgwick, C. Vallance, R. Woracek ................................................................................. 35

**First Neutron Computed Tomography with Digital Neutron Imaging Systems in a**

**High-Radiation Environment at the 250 kW Neutron Radiography Reactor at Idaho**

**National Laboratory**

Aaron Craft, Burkhard Schillinger, William Chuirazzi, Glen Papaioannou, Andrew Smolinski

and Nicholas Boutlon ......................................................................................................... 42

**The ANTARES Instrument Control System for Neutron Imaging with**

**NICOS/TANGO/LiMA Converted to a Mobile System used at Idaho National Laboratory**

Burkhard Schillinger, Aaron Craft, Jens Krüger ................................................................. 48

**Radiation Degradation of Silicon Crystal Used as Filter for Neutron Radiography**

Ladislav Viererbl, Jaroslav Šoltés, Miroslav Vinš, Hana Assmann Vratislavská, Alexander

Voljanskij ............................................................................................................................ 53

**Construction of a Quasi-Monoenergetic Neutron Source for Fast-Neutron Imaging**

M. Johnson, S.G. Anderson, D.L. Bleuel, J.A. Caggiano, P.J. Fitsos, D. Gibson, J. Gronberg,

J.M. Hall, R. Marsh, B. Rusnak .......................................................................................... 58

**Improvement of Neutron Color Image Intensifier Detector using an**

**Industrial Digital Camera**

Takashi Kamiyama, Koichi Nittoh, Kazuyuki Takada ......................................................... 67

**Gamma Discriminating Scintillation Screens for Digital Transfer Method**

**Neutron Imaging**

Aaron Craft, Christian Grünzweig, Manuel Morgano, William Chuirazzi, Eberhard Lehmann .. .............................................................................................................................................74

**Imaging Based Detector with Efficient Scintillators for Neutron Diffraction Measurements**

Matt W. Seals, Stephen B. Puplampu, Dayakar Penumadu, Richard A. Riedel, Jeff R. Bunn,

Christopher M. Fancher ..................................................................................................... 80

**Commissioning of the NDDL-40 Micro-Channel Plate Neutron Detector System at**

**Oregon State University**

Nicholas M. Boulton, Steven R. Reese, Aaron E. Craft ..................................................... 86

**A Quadruple Multi-Camera Neutron Computed Tomography System at MLZ**

Burkhard Schillinger, Jens Krüger ..................................................................................... 92

**High-resolution Detector for Neutron Diffraction and Quantification of Subsurface**

**Residual Stress**

Stuart R. Miller, Matthew S.J.Marshall, Megan Wart, Pijush Bhattacharya, Stephen Puplampu, Matthew Seals, Dayakar Penumadu, Rick Riedel, Vivek V. Nagarkar ............................................................................................................................................ 97

**Development of Event-Type Neutron Imaging Detectors at the Energy-Resolved Neutron**

**Imaging System RADEN at J-PARC**

Joseph Don Parker, Masahide Harada, Hirotoshi Hayashida, Kosuke Hiroi, Tetsuya Kai,

Yoshihiro Matsumoto, Takeshi Nakatani, Kenichi Oikawa, Mariko Segawa,Takenao Shinohara, Yuhua Su, Atsushi Takada, Toru Tanimori, Yoshiaki Kiyanagi ..................... 102

**One Inch CCD Cameras for Neutron and X-ray Imaging**

Alan Hewat ...................................................................................................................... 108

**Various Aspects of the Contrast Modalities of Modulated Beam Imaging**

Markus Strobl .................................................................................................................. 117

**Origin of Pseudo-Variation in High Resolution Neutron Grating Interferometry**

Tobias Neuwirth, Michael Schulz, Peter Böni ................................................................. 129

**Conversion from Film Based Transfer Method Neutron Radiography to Computed**

**Radiography for Post Irradiation Examination of Nuclear Fuels**

Glen C. Papaioannou, Dr. Aaron E. Craft, Michael A. Ruddell ....................................... 136

**Epithermal Neutron Radiography and Tomography on Large and**

**Strongly Scattering Samples**

Burkhard Schillinger, Aaron Craft ................................................................................... 142

**Feasibility Study of Two-Dimensional Neutron-Resonance Thermometry using**

**Molybdenum in 316 Stainless-Steel**

Tetsuya Kai, Kosuke Hiroi, Yuhua Su, Mariko Segawa, Takenao Shinohara, Yoshihiro Matsumoto, Joseph D. Parker, Hirotoshi Hayashida, Kenichi Oikawa............................ 149

**Development of kfps Bright Glash Neutron Imaging for Rapid, Transi**e**nt Processes**

R. Zboray, Ch. Lani, A. Portanova ................................................................................. 154

**Neutron Transmission Spectrum of Liquid Lead Bismuth Eutectic**

Yojiro Oba, Daisuke Ito, Yasushi Saito, Yohei Onodera, Joseph Don Parker,

Takenao Shinohara, Kenichi Oikawa ............................................................................ 160

**Quantitative Crack Analysis using Indirect Neutron Radiography and**

**Neutron Activation Analysis with Contrast Enhancement Agents**

Russell Jarmer, Dr. Jeffrey King, Dr. Aaron Craft, Dr. Robert O’Brien ......................... 165

**Effect of Scattering Correction in Neutron Imaging of Hydrogenous Samples**

**using the Black Body Approach**

Chiara Carminati, Pierre Boillat, Sarah Laemmlein, Petra Heckova, Michal Snehota,

David Mannes, Jan Hovind, Markus Strobl, Anders Kaestner........................................................................................................................ 174

**Fast Neutron Imaging at a Reactor Beam Line**

R. Zboray, Ch. Greer, A. Rattner, R. Adams, Z. Kis .................................................... 180

**3D Reconstruction of the Rotational Axis in Fission Neutron Tomography**

Oliver Kalthoff, Thomas Bücherl .................................................................................. 185

**Methods to Combine Multiple Images to Improve Quality**

Anders. P. Kaestner .................................................................................................... 193

**Jupyter Notebooks for Neutron Radiography Data Processing and Analysis**

Jean-Christophe Bilheux, Jiao Y. Y. Lin, Hassina Z. Bilheux ...................................... 198

**Application**

**Pulsed Neutron Imaging Based Crystallographic Structure Study of a Japanese Sword**

**made by Sukemasa in the Muromachi Period**

Kenichi Oikawa, Yoshiaki Kiyanagi, Hirotaka Sato, Kazuma Ohmae, Anh Hoang Pham,

Kenichi Watanabe, Yoshihiro Matsumoto, Takenao Shinohara, Tetsuya Kai, Stefanus Harjo,

Masato Ohnuma, Sigekazu Morito, Takuya Ohba, Akira Uritani, Masakazu Ito ......... 207

**Crystallographic Microstructure Study of a Japanese Sword made by Noritsuna in the**

**Muromachi Period by Pulsed Neutron Bragg-Edge Transmission Imaging**

Hirotaka Sato, Yoshiaki Kiyanagi, Kenichi Oikawa, Kazuma Ohmae, Anh Hoang Pham,

Kenichi Watanabe, Yoshihiro Matsumoto, Takenao Shinohara, Tetsuya Kai, Stefanus Harjo,

Masato Ohnuma, Shigekazu Morito, Takuya Ohba, Akira Uritani, Masakazu Itoh ...... 214

**Comparative Study of Ancient and Modern Japanese Swords using Neutron Tomography**

Yoshihiro Matsumoto, Kenichi Watanabe, Kazuma Ohmae, Akira Uritani, Yoshiaki Kiyanagi,

Hirotaka Sato, Masato Ohnuma, Anh Hoang Pham, Shigekazu Morito, Takuya Ohba,

Kenichi Oikawa, Takenao Shinohara, Tetsuya Kai, Stefanus Harjo, Masakazu Ito ..... 221

**Crystallographic Structure Study of a Japanese Sword Masamitsu made in the 1969**

**using Pulsed Neutron Imaging**

Kazuma Ohmae, Yoshiaki Kiyanagi, Hirotaka Sato, Kenichi Oikawa, Anh Hoang Pham,

Kenichi Watanabe, Yoshihiro Matsumoto, Takenao Shinohara, Tetsuya Kai, Stefanus Harjo,

Masato Ohnuma, Shigekazu Morito, Takuya Ohba, Akira Uritani, M. Ito .................... 227

**A Neutron Tomographic Analysis of Plated Silver Coins from Ancient Greece**

**Official or Illegal?**

Scott Olsen, Filomena Silvemini, Vladimir Luzin, Ulf Garbe , Max Avdeev, Joel Davis,

Ken Sheedy ................................................................................................................. 233

**The 15th-18th Terracotta Doll Investigation Using a Compact Neutron Tomography**

**System at Thai Research Reactor**

Sarinrat Wonglee, Sasiphan Khaweerat, Thiansin Liamsuwan, Jatechan Channuie,

Roppon Picha, Weerawat Pornroongruengchok ......................................................... 239

**The first Record of Plicidentine in Varanopseidae (Synapsida, Pelycosauria)**

Michael Laaß, Burkhard Schillinger ............................................................................ 244

**Digitally Excavating the Hidden Secrets of an Egyptian Animal Mummy:**

**a Comparative Neutron and X-ray CT Study**

Carla A. Raymond, Joseph J. Bevitt ........................................................................... 250

**Neutron Imaging, a Key Scientific Analytical Tool for the Cultural Heritage Project at**

**ANSTO - Investigation of Egyptian Votive Mummies**

Filomena Salvemini, Constance Lord, Candace Richards ......................................... 256

**Evaluation of Motion Blur in High-Speed Neutron Imaging at Kyoto University**

**Research Reactor**

Daisuke Ito, Yasushi Saito ......................................................................................... 262

**Simultaneous Measurements of Water Distribution and Electrochemical Characteristics in Polymer Electrolyte Fuel Cell**

Hideki Murakawa, Syun Sakihara, Katsumi Sugimoto, Hitoshi Asano, Daisuke Ito,

Yasushi Saito ............................................................................................................. 268

**Visualization and Measurement of Boiling Flow Behaviors in Parallel Mini-channel**

**Heat Exchanger by Neutron Radiography**

Hitoshi Asano, Hideki Murakawa, Ryosuke Moriyasu, Katsumi Sugimoto, Yohei Kubo,

Kazuhisa Fukutani, Daisuke Ito, Yasushi Saito ......................................................... 274

**3D Velocity Vector Measurements in a Liquid-metal using Unsharpness in Neutron**

**Transmission Images**

Yasushi Saito, Daisuke Ito ......................................................................................... 281

**Investigation of SINQ (Lead/Zircaloy) Spallation Target Structures by Means of**

**Neutron Imaging Techniques**

M. Wohlmuter, S. Dementjevs, P. Vontobel, J. Hovind, P. Trtik, E.H. Lehmann ........287

**Reactivation of the Transient Reactor Test (TREAT) Facility Neutron Radiography**

**Program**

Shawn R. Jensen, Aaron E. Craft, Glen C. Papaioannou, Wyatt W. Empie, Blaine R. Ward .....................................................................................................................................292

**Fission Neutron Tomography of a 280-L Waste Package**

T. Bücherl, Ch. Lierse von Gostomski, T. Baldauf ......................................................299

[**Microchemical Journal**](https://www.sciencedirect.com/journal/microchemical-journal) **(1)**

[On the use of neutron imaging methods to identify microstructural features in ancient Indian swords and armour](https://www.sciencedirect.com/science/article/abs/pii/S0026265X20319238)

[Filomena Salvemini, Alan Williams, David Edge, Burkhard Schillinger, Francesco Cantini, Francesco Grazzi](https://www.sciencedirect.com/science/article/abs/pii/S0026265X20319238#!)

[*Microchemical Journal*](https://www.sciencedirect.com/science/journal/0026265X)[*Volume 159*](https://www.sciencedirect.com/science/journal/0026265X/159/supp/C)*, December 2020, 105397*

[*https://doi.org/10.1016/j.microc.2020.105397*](https://doi.org/10.1016/j.microc.2020.105397)

[**Nature Communications**](https://www.nature.com/ncomms/) **(2)**

[4D imaging of lithium-batteries using correlative neutron and X-ray tomography with a virtual unrolling technique](https://www.nature.com/articles/s41467-019-13943-3)

[Ralf F. Ziesche](https://www.nature.com/articles/s41467-019-13943-3#auth-1), [Tobias Arlt](https://www.nature.com/articles/s41467-019-13943-3#auth-2), [Donal P. Finegan](https://www.nature.com/articles/s41467-019-13943-3#auth-3),[Thomas M. M. Heenan](https://www.nature.com/articles/s41467-019-13943-3#auth-4), [Alessandro Tengattini](https://www.nature.com/articles/s41467-019-13943-3#auth-5), [Daniel Baum](https://www.nature.com/articles/s41467-019-13943-3#auth-6), [Nikolay Kardjilov](https://www.nature.com/articles/s41467-019-13943-3#auth-7), [Henning Markötter](https://www.nature.com/articles/s41467-019-13943-3#auth-8), [Ingo Manke](https://www.nature.com/articles/s41467-019-13943-3#auth-9), [Winfried Kockelmann](https://www.nature.com/articles/s41467-019-13943-3#auth-10), [Dan J. L. Brett](https://www.nature.com/articles/s41467-019-13943-3#auth-11) & [Paul R. Shearing](https://www.nature.com/articles/s41467-019-13943-3#auth-12)

[*Nature Communications*](https://www.nature.com/ncomms)*volume 11, Article number: 777 (2020)*

[Using operando techniques to understand and design high performance and stable alkaline membrane fuel cells](Using%20operando%20techniques%20to%20understand%20and%20design%20high%20performance%20and%20stable%20alkaline%20membrane%20fuel%20cells)

Xiong Peng, Devashish Kulkarni, Ying Huang, Travis J. Omasta, Benjamin Ng, Yiwei Zheng, Lianqin Wang, Jacob M. LaManna, Daniel S. Hussey, John R. Varcoe, Iryna V. Zenyuk & William E. Mustain

*Nature Communications volume 11, Article number: 3561 (2020)*

[**Nature Scientific Reports**](http://www.nature.com/srep/) **(1)**

[3D sub-pixel correlation length imaging](https://www.nature.com/articles/s41598-020-57988-7)

R.P.Harti, M. Strobl, J. Valsecchi, J. Hovind, C. Grunzweig

*2020-01 Scientific Reports*

*DOI: 10.1038/s41598-020-57988-7 ISSN: 2045-2322 Volume: 10 Issue: 1 Pages: 1*

[**NDT & E international**](https://www.journals.elsevier.com/ndt-and-e-international/) **(1)**

[Joint application of structured-light optical scanning, neutron tomography and position-sensitive prompt gamma activation analysis for the non-destructive structural and compositional characterization of fossil echinoids](https://www.sciencedirect.com/science/article/pii/S0963869520303194)

Boglárka Maróti, Bálint Polonkai, Veronika Szilágyi, Zoltán Kis, Zsolt Kasztovszky, László Szentmiklósi, Balázs Székely

*NDT & E International. Volume 115, October 2020, 102295*

*https://doi.org/10.1016/j.ndteint.2020.102295*

*https://www.sciencedirect.com/science/journal/09638695*

**[New Phytologist (1)](https://nph.onlinelibrary.wiley.com/journal/14698137)**

[Differences in grapevine rootstock sensitivity and recovery from drought are linked to fine root cortical lacunae and root tip function](http://europepmc.org/article/MED/32171020)

[Cuneo IF](http://europepmc.org/search?query=AUTH:%22Italo%20F%20Cuneo%22), [Barrios-Masias F](http://europepmc.org/search?query=AUTH:%22Felipe%20Barrios-Masias%22), [Knipfer T](http://europepmc.org/search?query=AUTH:%22Thorsten%20Knipfer%22), [Uretsky J](http://europepmc.org/search?query=AUTH:%22Jake%20Uretsky%22), [Reyes C](http://europepmc.org/search?query=AUTH:%22Clarissa%20Reyes%22), [Lenain P](http://europepmc.org/search?query=AUTH:%22Pierre%20Lenain%22), [Brodersen CR](http://europepmc.org/search?query=AUTH:%22Craig%20R%20Brodersen%22), [Walker MA](http://europepmc.org/search?query=AUTH:%22M%20Andrew%20Walker%22), [McElrone AJ](http://europepmc.org/search?query=AUTH:%22Andrew%20J%20McElrone%22)

*The New Phytologist, 14 Mar 2020,
doi:*[*10.1111/nph.16542*](http://doi.org/10.1111/nph.16542)*PMID: 32171020*

[**Nuclear Engineering and Technology**](https://www.sciencedirect.com/journal/nuclear-engineering-and-technology/vol/47/issue/6) **(3)**

[Target-Moderator-Reflector system for 10–30 MeV proton accelerator-driven compact thermal neutron source: Conceptual design and neutronic characterization](https://www.sciencedirect.com/science/article/pii/S1738573319305212)

[Byoungil Jeon](https://www.sciencedirect.com/science/article/pii/S1738573319305212#!), [Jongyul Kim, Eunjoong Lee](https://www.sciencedirect.com/science/article/pii/S1738573319305212#!), [Myungkook Moon,](https://www.sciencedirect.com/science/article/pii/S1738573319305212#!) [Gyuseong Cho](https://www.sciencedirect.com/science/article/pii/S1738573319305212#!)

[*Nuclear Engineering and Technology*](https://www.sciencedirect.com/science/journal/17385733)

[*Volume 52, Issue 3*](https://www.sciencedirect.com/science/journal/17385733/52/3)*, March 2020, Pages 633-646*

[*https://doi.org/10.1016/j.net.2019.08.019*](https://doi.org/10.1016/j.net.2019.08.019)

[A novel ceramic GEM used for neutron detection](https://www.sciencedirect.com/science/article/pii/S173857331930912X)

[Jianrong Zhou,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Xiaojuan Zhou,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Jianjin Zhou,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Xingfen Jiang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Jianqing Yang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Lin Zhu,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Wenqin Yang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Tao Yang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Hong Xu,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Yuanguang Xia,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Gui-an Yang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Yuguang Xie,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Chaoqiang Huang,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Bitao Hu,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Zhijia Sun,](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21) [Yuanbo Chen](https://www.sciencedirect.com/science/article/pii/S173857331930912X%22%20%5Cl%20%22%21)

[*Nuclear Engineering and Technology*](https://www.sciencedirect.com/science/journal/17385733)

[*Volume 52, Issue 6*](https://www.sciencedirect.com/science/journal/17385733/52/6)*, June 2020, Pages 1277-1281*

[*https://doi.org/10.1016/j.net.2019.11.021*](https://doi.org/10.1016/j.net.2019.11.021)

[Neutron imaging for metallurgical characteristics of iron products manufactured with ancient Korean iron making techniques](https://www.sciencedirect.com/science/article/pii/S1738573320309220)

[Sungmo Cho, Jongyul Kim, TaeJoo Kim, Hirotaka Sato, Ilkwon Huh, Namchul Cho](https://www.sciencedirect.com/science/article/pii/S1738573320309220#!)

[*Nuclear Engineering and Technology*](https://www.sciencedirect.com/science/journal/17385733)

*Available online 7 November 2020*

[*https://doi.org/10.1016/j.net.2020.11.007*](https://doi.org/10.1016/j.net.2020.11.007)

[**Nuclear Instruments and Methods in Physics Research Section A**](https://www.sciencedirect.com/journal/nuclear-instruments-and-methods-in-physics-research-section-a-accelerators-spectrometers-detectors-and-associated-equipment) **(17)**

[High spatial resolution cold neutron imaging with new Tb3+/Ce3+ co-doped Gd2O3 scintillation glass fiber arrays](https://www.sciencedirect.com/science/article/pii/S0168900219312653)

De-Yuan Li, Hua Li, Meng-Qing Niu, Cheng-Liang Wan, Xiao-Dong Zhang

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*,*

*Volume 949, 1 January 2020, Article 162829*

[Hydrogenous content identification in heterogeneous cargoes via multiple monoenergetic neutron radiography](https://www.sciencedirect.com/science/article/pii/S0168900219312860)

Jill Rahon, Areg Danagoulian

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*,*

*Volume 949, 1 January 2020, Article 162860*

[Self-supporting design of a time-encoded aperture, gamma-neutron imaging system](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555)

[Xiuzuo Liang, Xiaoyu Pang, Daquan Cao, Xuanhou hu, Daowu Li, Zhiming Zhang, Shuangquan Liu, Tingting Hu, Yiwen Zhang, Xiaoming Wang,](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!)  [Fanhui Meng,](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!)  [Jipeng Zhang,](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!) [Xiaorou Han](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555%22%20%5Cl%20%22%21), [Qi liu](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!) [Likun Liu](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!), [Zhibo Zhou](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!), [Jilong Zhang](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!), [Long Wei,](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555#!) [Lei Shuai](https://www.sciencedirect.com/science/article/abs/pii/S0168900219313555%22%20%5Cl%20%22%21)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

[*Volume 951*](https://www.sciencedirect.com/science/journal/01689002/951/supp/C)*, 21 January 2020, 162964*

[*https://doi.org/10.1016/j.nima.2019.162964*](https://doi.org/10.1016/j.nima.2019.162964)

[Development of Cold Neutron Radiography Facility (CNRF) based on China Mianyang Research Reactor (CMRR)](https://www.sciencedirect.com/science/article/pii/S0168900219314111)

Heyong Huo, Hang Li, Yang Wu, Shilei Zhu, Bin Liu, Yong Sun, Sheng Wang, Chao Cao, Wei Yin, Bin Tang, John Rogers

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002), [*Volume 953*](https://www.sciencedirect.com/science/journal/01689002/953/supp/C)*, 11 February 2020, 163063.*

[*https://doi.org/10.1016/j.nima.2019.163063*](https://doi.org/10.1016/j.nima.2019.163063)

[A fast and portable imager for neutron and gamma emitting radionuclides](https://www.sciencedirect.com/science/article/pii/S0168900219315256)

[Hajir Al Hamrashdi, DavidCheneler, Stephen D.Monka](https://www.sciencedirect.com/science/article/pii/S0168900219315256#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

[*Volume 953*](https://www.sciencedirect.com/science/journal/01689002/953/supp/C)*, 11 February 2020, 163253*

[*https://doi.org/10.1016/j.nima.2019.163253*](https://doi.org/10.1016/j.nima.2019.163253)

[The potential of real-time, fast neutron and γ radiography for the characterization of low-mass, solid-phase media](https://www.sciencedirect.com/science/article/pii/S0168900218318205?via%3Dihub)

[M.Licata, M.J.Joyce, I.Tsitsimpelis, D.Clark](https://www.sciencedirect.com/science/article/pii/S0168900218318205?via%3Dihub#!), [B.A.Shippen](https://www.sciencedirect.com/science/article/pii/S0168900218318205?via%3Dihub#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*,*

[*Volume 954*](https://www.sciencedirect.com/science/journal/01689002/954/supp/C)*, 21 February 2020, 161706*

[Development of a high frame rate neutron imaging method for two-phase flows](https://www.sciencedirect.com/science/article/abs/pii/S0168900218318187)

[Chad Lani](https://www.sciencedirect.com/science/article/abs/pii/S0168900218318187#!), [Robert Zboray](https://www.sciencedirect.com/science/article/abs/pii/S0168900218318187#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

[*Volume 954*](https://www.sciencedirect.com/science/journal/01689002/954/supp/C)*, 21 February 2020, 161707*

[*https://doi.org/10.1016/j.nima.2018.12.022*](https://doi.org/10.1016/j.nima.2018.12.022)

[Demonstration of coded-aperture fast-neutron imaging based on Timepix detector](https://www.sciencedirect.com/science/article/abs/pii/S0168900218313664)

[C.Lynde, F.Carrel, V.Schoepff, C.Frangville, R.Woo, A.Sardet, J.Venara, M.Ben Mosbah, R.Abou Khalil, Z.El Bitar](https://www.sciencedirect.com/science/article/abs/pii/S0168900218313664#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

[*Volume 954*](https://www.sciencedirect.com/science/journal/01689002/954/supp/C)*, 21 February 2020, 161373*

[*https://doi.org/10.1016/j.nima.2018.10.051*](https://doi.org/10.1016/j.nima.2018.10.051)

[Neutron gas scintillation imager with glass capillary plate](https://www.sciencedirect.com/science/article/pii/S0168900219312483)

Haruyasu Kondo, Hiroyuki Sugiyama, Teruyuki Okada, Masahiro Hayashi, Takayuki Sumiyoshi

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*,*

[*Volume 958*](https://www.sciencedirect.com/science/journal/01689002/958/supp/C)*, 1 April 2020, 162804*

[Design of moderator and collimator for compact neutron radiography systems](https://www.sciencedirect.com/science/article/pii/S0168900220301236?dgcid=raven_sd_via_email#!)

Huanyu Li, Chenyi Zhao, Shuang Qiao, Tian Zhang

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,*

*Volume 959 , 11 April 2020, Article 163535*

NeXT-Grenoble, the Neutron and X-ray tomograph in Grenoble

[Alessandro Tengattini, Nicolas Lenoir, Edward Andò, Benjamin Giroud, Duncan Atkins,](https://www.sciencedirect.com/science/article/pii/S0168900220304198#!) [Jerome Beaucour](https://www.sciencedirect.com/science/article/pii/S0168900220304198#!), [Gioacchino Viggiani](https://www.sciencedirect.com/science/article/pii/S0168900220304198#!)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,*

[*Volume 968*](https://www.sciencedirect.com/science/journal/01689002/968/supp/C)*, 11 July 2020, 163939*

[First evaluation of fast neutron imaging with LiInSe2 semiconductors](https://www.sciencedirect.com/science/article/pii/S0168900220306501)

[Eric Lukosi,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Daniel Hamm,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Jeff Preston,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Paul Hausladen,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Carl Brune,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Thomas Massey,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Devon Jacobs,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Arnold Burger,](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21) [Ashley Stowe](https://www.sciencedirect.com/science/article/pii/S0168900220306501%22%20%5Cl%20%22%21)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,*

[*https://doi.org/10.1016/j.nima.2020.*](https://doi.org/10.1016/j.nima.2020.164254) *Available online 10 June 2020, 164254*

[A Monte Carlo evaluation of neutron images quality in a research reactor based neutron radiography facility](https://www.sciencedirect.com/science/article/pii/S0168900220306549)

[H.Jafari, M.H. Choopan Dastjerdi, S. Rajabi Moghadam](https://www.sciencedirect.com/science/article/pii/S0168900220306549#!)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,*

[*Volume 976*](https://www.sciencedirect.com/science/journal/01689002/976/supp/C)*, 1 October 2020, 164258*

[Development of a neutron imaging sensor using INTPIX4-SOI pixelated silicon devices](https://www.sciencedirect.com/science/article/abs/pii/S016890022030797X)

Y.Kamiya, T.Miyoshi, H.Iwase, T.Inada, A.Mizushima, Y.Mita, K.Shimazoe, H.Tanaka, I.Kurachi, Y.Arai

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*

*Volume 979, 1 November 2020, 164400https://doi.org/10.1016/j.nima.2020.164400*

[Wavelength frame multiplication chopper system for the multi-purpose neutron-imaging instrument ODIN at the European Spallation Source](https://www.sciencedirect.com/science/article/abs/pii/S0168900220308640)

Author links open overlay [P.Schmakat, M.Seifert, M.Schulz, A.Tartaglione, M.Lerche, M.Morgano, P.Böni, M.Strobl](https://www.sciencedirect.com/science/article/abs/pii/S0168900220308640#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

[*Volume 979*](https://www.sciencedirect.com/science/journal/01689002/979/supp/C)*, 1 November 2020, 164467,* [*https://doi.org/10.1016/j.nima.2020.164467*](https://doi.org/10.1016/j.nima.2020.164467)

[New neutron radiography and tomography facility TITAN at the WWR-K reactor](https://www.sciencedirect.com/science/article/abs/pii/S0168900220309694)

K.M.Nazarov, B.Muhametuly, E.A.Kenzhin, S.E.Kichanov, D.P.Kozlenko, E.V.Lukin, A.A.Shaimerdenov

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*

*Volume 982, 1 December 2020, 164572https://doi.org/10.1016/j.nima.2020.164572*

[Improvement in the spatial resolution for imaging with fast neutrons](https://www.sciencedirect.com/science/article/abs/pii/S0168900220312067)

[E.H.Lehmann, D.Mannes, M.Strobl, B.Walfort, A.Losko, B.Schillinger, M.Schulz, S.Vogel, D.C.Schaper, C.Gautier, D.Newmark](https://www.sciencedirect.com/science/article/abs/pii/S0168900220312067#!)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)

*Available online 27 October 2020,* [*https://doi.org/10.1016/j.nima.2020.164809*](https://doi.org/10.1016/j.nima.2020.164809)

[**Optical Materials**](https://www.sciencedirect.com/journal/optical-materials) **(1)**

[Fabrication and properties of Gd2O2S:Tb scintillation ceramics for the high-resolution neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0925346720302561)

[Hongming Pan, Qiang Liu, Xiaopu Chen, Xin Liu, Haohong Chen, Tengfei Xie, Wei Wang, Yun Shi, Xingfen Jiang, Jianrong Zhou, Zhijia Sun, Martin Nikl, Jiang Li](https://www.sciencedirect.com/science/article/abs/pii/S0925346720302561#!)

[*Optical Materials*](https://www.sciencedirect.com/science/journal/09253467)[*Volume 105*](https://www.sciencedirect.com/science/journal/09253467/105/supp/C)*, July 2020, 109909,*

[*https://doi.org/10.1016/j.optmat.2020.109909*](https://doi.org/10.1016/j.optmat.2020.109909)

[**PeerJ**](https://peerj.com/articles/8698/) **(2)**

[Postcranial anatomy and histology of *Seymouria*, and the terrestriality of seymouriamorphs](https://peerj.com/articles/8698/)

Bazzana KD, Gee BM, Bevitt JJ, Reisz RR.

*PeerJ* *8:e8698*[*https://doi.org/10.7717/peerj.8698*](https://doi.org/10.7717/peerj.8698) *2020*

[Thecodont tooth attachment and replacement in bolosaurid parareptiles](https://peerj.com/articles/9168/?utm_source=TrendMD&utm_campaign=PeerJ_TrendMD_1&utm_medium=TrendMD)

Snyder AJ, LeBlanc ARH, Jun C, Bevitt JJ, Reisz RR.

*PeerJ* 8:e9168 [https://doi.org/10.7717/peerj.9168 2020](https://doi.org/10.7717/peerj.9168%202020)

[**Physica C: Superconductivity and its Applications**](https://www.sciencedirect.com/journal/physica-c-superconductivity-and-its-applications/vol/575/suppl/C) **(1)**

[Non-destructive characterisation of dopant spatial distribution in cuprate superconductors](https://www.sciencedirect.com/science/article/abs/pii/S0921453420300423?via%3Dihub)

[A.-E.Ţuţueanu, M.Sales, K.L.Eliasen, M.-E.Lǎcǎtuşu, J.-C.Grivel, N.Kardjilov, I.Manke, M.Krzyzagorski, Y.Sassa, M.S.Andersson, S.Schmidt,](https://www.sciencedirect.com/science/article/abs/pii/S0921453420300423?via%3Dihub#!) [K.Lefmann](https://www.sciencedirect.com/author/56271182000/kim-lefmann)

[*Physica C: Superconductivity and its Applications*](https://www.sciencedirect.com/science/journal/09214534)

[*Volume 575*](https://www.sciencedirect.com/science/journal/09214534/575/supp/C)*, 15 August 2020, 1353691*

[**Physical Chemistry Chemical Physics**](https://pubs.rsc.org/en/journals/journalissues/cp#!recentarticles&adv) **(1)**

[Hydrogen in methanol catalysts by neutron imaging.](https://pubs.rsc.org/en/content/articlelanding/2020/CP/D0CP03414B#!divAbstract)

[Terreni J](http://europepmc.org/search?query=AUTH:%22Jasmin%20Terreni%22), [Billeter E](http://europepmc.org/search?query=AUTH:%22Emanuel%20Billeter%22), [Sambalova O](http://europepmc.org/authors/0000-0002-9012-4028), [Liu X](http://europepmc.org/search?query=AUTH:%22Xiaochun%20Liu%22), [Trottmann M](http://europepmc.org/search?query=AUTH:%22Matthias%20Trottmann%22), [Sterzi A](http://europepmc.org/search?query=AUTH:%22Andrea%20Sterzi%22), [Geerlings H](http://europepmc.org/search?query=AUTH:%22Hans%20Geerlings%22), [Trtik P](http://europepmc.org/search?query=AUTH:%22Pavel%20Trtik%22),[Kaestner A](http://europepmc.org/authors/0000-0003-4054-4726), [Borgschulte A](http://europepmc.org/search?query=AUTH:%22Andreas%20Borgschulte%22)

*Physical Chemistry Chemical Physics : PCCP, 01 Oct 2020, 22(40):22979-22988
DOI:*[*10.1039/d0cp03414b*](http://doi.org/10.1039/d0cp03414b)*PMID: 33030152*

[**Physical Review**](https://journals.aps.org/pra/)  **(1)**

[Neutron ghost imaging](https://journals.aps.org/pra/abstract/10.1103/PhysRevA.101.053844)

Andrew M. Kingston, Glenn R. Myers, Daniele Pelliccia, Filomena Salvemini, Joseph J. Bevitt, Ulf Garbe, and David M. Paganin

*Phys. Rev. A 101, 053844 – Published 18 May 2020*

[**Physical Review Letters**](https://journals.aps.org/prl/)  **(1)**

[Imaging Fluorescence of He\_{2}^{\*} Excimers Created by Neutron Capture in Liquid Helium II.](https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.124.134502)

[Wen X](http://europepmc.org/search?query=AUTH:%22X%20Wen%22), [Bao SR](http://europepmc.org/search?query=AUTH:%22S%20R%20Bao%22), [McDonald L](http://europepmc.org/search?query=AUTH:%22L%20McDonald%22), [Pierce J](http://europepmc.org/search?query=AUTH:%22J%20Pierce%22), [Greene GL](http://europepmc.org/search?query=AUTH:%22G%20L%20Greene%22), [Crow L](http://europepmc.org/search?query=AUTH:%22Lowell%20Crow%22), [Tong X](http://europepmc.org/search?query=AUTH:%22Xin%20Tong%22), [Mezzacappa A](http://europepmc.org/search?query=AUTH:%22A%20Mezzacappa%22), [Glasby R](http://europepmc.org/search?query=AUTH:%22R%20Glasby%22), [Guo W](http://europepmc.org/authors/0000-0002-9466-3213), [Fitzsimmons MR](http://europepmc.org/search?query=AUTH:%22M%20R%20Fitzsimmons%22)

*Physical Review Letters, 01 Apr 2020, 124(13):134502, DOI:*[*10.1103/physrevlett.124.134502*](http://doi.org/10.1103/physrevlett.124.134502)*PMID: 32302187*

[**PLOS One**](https://journals.plos.org/plosone/) **(2)**

[Reconstructing *Krassilovia mongolica* supports recognition of a new and unusual group of Mesozoic conifers](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0226779)

Fabiany Herrera , Gongle Shi, Chris Mays, Niiden Ichinnorov, Masamichi Takahashi, Joseph J. Bevitt, Patrick S. Herendeen, Peter R. Crane

*Plos One, January 15, 2020,* [*https://doi.org/10.1371/journal.pone.0226779*](https://doi.org/10.1371/journal.pone.0226779)

[One-pot neutron imaging of surface phenomena, swelling and diffusion during methane absorption in ethanol and *n*-decane under high pressure](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0238470)

[Vopička O](http://europepmc.org/search?query=AUTH:%22Ond%C5%99ej%20Vopi%C4%8Dka%22), [Číhal P](http://europepmc.org/search?query=AUTH:%22Petr%20%C4%8C%C3%ADhal%22), [Klepić M](http://europepmc.org/search?query=AUTH:%22Martina%20Klepi%C4%87%22), [Crha J](http://europepmc.org/search?query=AUTH:%22Jan%20Crha%22), [Hynek V](http://europepmc.org/search?query=AUTH:%22Vladim%C3%ADr%20Hynek%22), [Trtík K](http://europepmc.org/search?query=AUTH:%22Karel%20Trt%C3%ADk%22), [Boillat P](http://europepmc.org/search?query=AUTH:%22Pierre%20Boillat%22), [Trtik P](http://europepmc.org/search?query=AUTH:%22Pavel%20Trtik%22), [Prescott S](http://europepmc.org/search?query=AUTH:%22Stuart%20Prescott%22)

*PLoS One. 2020; 15(9): e0238470.Published online 2020 Sep 10.doi:*[*10.1371/journal.pone.0238470*](http://dx.doi.org/10.1371/journal.pone.0238470)*, PMCID: PMC7482935*

[**Processes**](https://www.mdpi.com/journal/processes) **(1)**

[Freeze-Drying with Structured Sublimation Fronts—Visualization with Neutron Imaging](https://www.mdpi.com/2227-9717/8/9/1091)

[Nicole Vorhauer-Huget](https://sciprofiles.com/profile/1149974), [David Mannes](https://sciprofiles.com/profile/author/MENRRXlCWjNtWVpuUnJDTFBCY09ZdEdQNVRmRUVJY2JHQXZSc2lUSmY5dz0%3D), [Mathias Hilmer](https://sciprofiles.com/profile/1124017), [Sebastian Gruber](https://sciprofiles.com/profile/1157246), [Markus Strobl](https://sciprofiles.com/profile/340087), [Evangelos Tsotsas](https://sciprofiles.com/profile/1204906), [Petra Foerst](https://sciprofiles.com/profile/796960)

Processes*2020,*8*(9), 1091;*[*https://doi.org/10.3390/pr8091091*](https://doi.org/10.3390/pr8091091)

*Received: 31 July 2020 / Revised: 28 August 2020 / Accepted: 30 August 2020 / Published: 2 September 2020*

[**Quantum Beam Science**](https://www.mdpi.com/journal/qubs) **(1)**

[Recent Progress in X-ray and Neutron Phase Imaging with Gratings](https://www.mdpi.com/2412-382X/4/1/9)

[Atsushi Momose](https://sciprofiles.com/profile/933131), [Hidekazu Takano](https://sciprofiles.com/profile/author/UGpxZkxwd080SU4xVEg5RlBqaTNaM2MyRVp3cWJuMEJMakZoZEZNSzZnST0%3D),[Yanlin Wu](https://sciprofiles.com/profile/author/U0V1R1RRdG9kZjhMaVg0TTNkTGZVT0hzUmEyTjRYZmp4TStjbUJQWkRHQT0%3D), [Koh Hashimoto](https://sciprofiles.com/profile/author/ZHgrbGFUNzhUbWxZRmNGUERGZDVkQ2h0TFYxeVFpMWtKeHpOZHhZc0h5UT0%3D),[Tetsuo Samoto, Masato Hoshino](https://sciprofiles.com/profile/author/d3ZpRjAyWGR5bENzVmp1dExWejcrVEJ1TURJTHZSRXBuRXBvbnlmZFFuaz0%3D),[Yoshichika Seki](https://sciprofiles.com/profile/author/VHMwSm9XRko1ME1jcG5UU0ZvTVVrV1VqVU90Z1FDTE5HRUZuV0JHNzZ6OD0%3D),[Takenao Shinohara](https://sciprofiles.com/profile/author/UG50WWVqakJxSWhmWEFJblU5bmJiQjNIK0V0LzZkNjRqTnZScFJOdUJCWT0%3D)

[*Quantum Beam Sci. 2020, 4(1), 9*;](https://www.mdpi.com/2412-382X/4/1/9)[*https://doi.org/10.3390/qubs4010009*](https://doi.org/10.3390/qubs4010009)

[**Radiation Measurements**](https://www.sciencedirect.com/journal/radiation-measurements/vol/134/suppl/C) **(1)**

[Synthesis and characterization of borate glasses for thermal neutron scintillation and imaging](https://www.sciencedirect.com/science/article/abs/pii/S1350448720300834)

[Sudipta Saha, H.J.Kim, Pabitra Aryal, Mohit Tyagi, Robin Barman, J.Kaewkhao, S.Kothan, S.Kaewjaeng](https://www.sciencedirect.com/science/article/abs/pii/S1350448720300834#!)

[*Radiation Measurements*](https://www.sciencedirect.com/science/journal/13504487)[*Volume 134*](https://www.sciencedirect.com/science/journal/13504487/134/supp/C)*, June 2020, 106319*

[*https://doi.org/10.1016/j.radmeas.2020.106319*](https://doi.org/10.1016/j.radmeas.2020.106319)

[**Review of Scientific Instruments**](https://aip.scitation.org/rsi/info/policies) **(5)**

[Focusing and imaging of cold neutrons with a permanent magnetic lens](https://aip.scitation.org/doi/10.1063/1.5116759)

[Jay T. Cremer Jr.](https://aip.scitation.org/author/Cremer%2C%2BJay%2BT%2BJr)*,*[Hanno Filter](https://aip.scitation.org/author/Filter%2C%2BHanno)*,*[Jürgen Klepp](https://aip.scitation.org/author/Klepp%2C%2BJ%C3%BCrgen)*,*[Peter Geltenbort](https://aip.scitation.org/author/Geltenbort%2C%2BPeter)*,*[Charles Dewhurst](https://aip.scitation.org/author/Dewhurst%2C%2BCharles)*,*[Tatsuro Oda](https://aip.scitation.org/author/Oda%2C%2BTatsuro)*,* [Richard H. Pantell](https://aip.scitation.org/author/Pantell%2C%2BRichard%2BH)

*Review of Scientific Instruments 91, 013704 (2020);*[*https://doi.org/10.1063/1.5116759*](https://doi.org/10.1063/1.5116759)

[Development of an experimental setup for in situ visualization of lyophilization using neutron radiography and computed tomography](https://aip.scitation.org/doi/10.1063/1.5126927).

[Hilmer M](http://europepmc.org/authors/%5Bobject%20Object%5D), [Peters J](http://europepmc.org/search?query=AUTH:%22J%C3%BCrgen%20Peters%22), [Schulz M](http://europepmc.org/authors/%5Bobject%20Object%5D), [Gruber S](http://europepmc.org/search?query=AUTH:%22Sebastian%20Gruber%22), [Vorhauer N](http://europepmc.org/search?query=AUTH:%22Nicole%20Vorhauer%22), [Tsotsas E](http://europepmc.org/authors/%5Bobject%20Object%5D), [Foerst P](http://europepmc.org/search?query=AUTH:%22Petra%20Foerst%22)

*Review of Scientific Instruments, 01 Jan 2020, 91(1):014102
DOI:*[*10.1063/1.5126927*](http://doi.org/10.1063/1.5126927)*PMID: 32012547*

[The energy-resolved neutron imaging system, RADEN](https://aip.scitation.org/doi/10.1063/1.5136034).

[Shinohara T](http://europepmc.org/authors/0000-0003-4432-7681), [Kai T](http://europepmc.org/authors/0000-0002-9892-4556), [Oikawa K](http://europepmc.org/authors/0000-0003-4913-626X), [Nakatani T](http://europepmc.org/search?query=AUTH:%22Takeshi%20Nakatani%22), [Segawa M](http://europepmc.org/search?query=AUTH:%22Mariko%20Segawa%22), [Hiroi K](http://europepmc.org/search?query=AUTH:%22Kosuke%20Hiroi%22), [Su Y](http://europepmc.org/search?query=AUTH:%22Yuhua%20Su%22), [Ooi M](http://europepmc.org/search?query=AUTH:%22Motoki%20Ooi%22), [Harada M](http://europepmc.org/search?query=AUTH:%22Masahide%20Harada%22), [Iikura H](http://europepmc.org/search?query=AUTH:%22Hiroshi%20Iikura%22), [Hayashida H](http://europepmc.org/search?query=AUTH:%22Hirotoshi%20Hayashida%22), [Parker JD](http://europepmc.org/authors/0000-0002-7775-4455), [Matsumoto Y](http://europepmc.org/search?query=AUTH:%22Yoshihiro%20Matsumoto%22), [Kamiyama T](http://europepmc.org/search?query=AUTH:%22Takashi%20Kamiyama%22), [Sato H](http://europepmc.org/authors/0000-0002-1968-7688), [Kiyanagi Y](http://europepmc.org/search?query=AUTH:%22Yoshiaki%20Kiyanagi%22)

*Review of Scientific Instruments, 01 Apr 2020, 91(4):043302
DOI:*[*10.1063/1.5136034*](http://doi.org/10.1063/1.5136034)*PMID: 32357693*

[Sample container for high-resolution neutron imaging of spent nuclear fuel cladding sections](https://aip.scitation.org/doi/full/10.1063/1.5143226)

[Pavel Trtik](https://aip.scitation.org/author/Trtik%2C%2BPavel)*,*[Robert Zubler](https://aip.scitation.org/author/Zubler%2C%2BRobert)*,*[Weijia Gong](https://aip.scitation.org/author/Gong%2C%2BWeijia)*,*[Robin Grabherr](https://aip.scitation.org/author/Grabherr%2C%2BRobin)*,*[Johannes Bertsch](https://aip.scitation.org/author/Bertsch%2C%2BJohannes)*,* [Liliana I. Duarte](https://aip.scitation.org/author/Duarte%2C%2BLiliana%2BI)

*Review of Scientific Instruments 91, 056103 (2020);*[*https://doi.org/10.1063/1.5143226*](https://doi.org/10.1063/1.5143226)

[A high-pressure flow through test vessel for neutron imaging and neutron diffraction-based strain measurement of geological materials](https://aip.scitation.org/doi/10.1063/5.0013433).

Carmichael JR, [Polsky Y](http://europepmc.org/authors/0000-0002-2765-4122), [An K](http://europepmc.org/authors/0000-0002-6093-429X), [Anovitz LM](http://europepmc.org/authors/0000-0002-2609-8750), [Bingham P](http://europepmc.org/authors/0000-0003-4616-6084), [Dessieux L](http://europepmc.org/authors/0000-0001-7889-1980), [Ekici K](http://europepmc.org/authors/0000-0001-8839-5374), [Frost M](http://europepmc.org/authors/0000-0001-6821-170X), [Pemberton S](http://europepmc.org/search?query=AUTH:%22S%20Pemberton%22)

*Review of Scientific Instruments, 01 Aug 2020, 91(8):084502
DOI:*[*10.1063/5.0013433*](http://doi.org/10.1063/5.0013433)*PMID: 32872895*

[**Science Bulletin**](https://www.sciencedirect.com/journal/science-bulletin) **(1)**

[Single-pixel imaging with neutrons](https://www.sciencedirect.com/science/article/abs/pii/S2095927320306265)

[Yu-Hang He, Yi-Yi Huang, Zhi-Rong Zeng, Yi-Fei Li, Jun-Hao Tan, ,Li-Ming Chen, Ling-An Wu, Ming-Fei Li, Bao-Gang Quan,](https://www.sciencedirect.com/science/article/abs/pii/S2095927320306265#!) [Song-Lin Wang,](https://www.sciencedirect.com/science/article/abs/pii/S2095927320306265%22%20%5Cl%20%22%21) [Tian-Jiao Liang](https://www.sciencedirect.com/science/article/abs/pii/S2095927320306265%22%20%5Cl%20%22%21)

[*Science Bulletin*](https://www.sciencedirect.com/science/journal/20959273)*,* [*Volume 66, Issue 2*](https://www.sciencedirect.com/science/journal/20959273/66/2)*, 30 January 2021, Pages 133-138*

[*https://doi.org/10.1016/j.scib.2020.09.030*](https://doi.org/10.1016/j.scib.2020.09.030)

[**Scientific Reports**](https://www.nature.com/srep/?gclid=EAIaIQobChMIxM7Y0P-f7AIV2e7tCh2nzwImEAAYASAAEgKqmvD_BwE) **(5)**

[3D sub-pixel correlation length imaging](https://www.nature.com/articles/s41598-020-57988-7)

[R. P. Harti](https://www.nature.com/articles/s41598-020-57988-7#auth-1), [M. Strobl](https://www.nature.com/articles/s41598-020-57988-7#auth-2), [J. Valsecchi](https://www.nature.com/articles/s41598-020-57988-7#auth-3), [J. Hovind](https://www.nature.com/articles/s41598-020-57988-7#auth-4), [C. Grünzweig](https://www.nature.com/articles/s41598-020-57988-7#auth-5)

[*Scientific Reports*](https://www.nature.com/srep)*volume 10, Article number: 1002 (2020)*

[A high visibility Talbot-Lau neutron grating interferometer to investigate stress-induced magnetic degradation in electrical steel](https://www.nature.com/articles/s41598-020-58504-7)

Tobias Neuwirth, Alexander Backs, Alex Gustschin, Simon Vogt, Franz Pfeiffer, Peter Böni  & Michael Schulz

[*Scientific Reports*](https://www.nature.com/srep) *volume 10, Article number: 1764 (2020)*

[Deep learning for high-resolution and high-sensitivity interferometric phase contrast imaging](https://www.nature.com/articles/s41598-020-66690-7)

Seho Lee, Ohsung Oh, Youngju Kim, Daeseung Kim, Daniel S. Hussey, Ge Wang  & Seung Wook Lee

[*Scientific Reports*](https://www.nature.com/srep) *volume 10, Article number: 9891 (2020)*

[Frame overlap Bragg edge imaging](https://www.nature.com/articles/s41598-020-71705-4)

Matteo Busi, Jan Čapek, Efthymios Polatidis, Jan Hovind, Pierre Boillat, Anton S. Tremsin, Winfried Kockelmann & Markus Strobl

[*Scientific Reports*](https://www.nature.com/srep) *volume 10, Article number: 14867 (2020)*

[The structure of scleractinian coral skeleton analyzed by neutron diffraction and neutron computed tomography](https://www.nature.com/articles/s41598-020-69859-2)

Tatiana I. Ivankina, Sergey E. Kichanov, Octavian G. Duliu, Safa Y. Abdo  & Mohamed M. Sherif

[*Scientific Reports*](https://www.nature.com/srep) *volume 10, 1–10, Article number: 12869 (2020)*

[**Scripta Materialia**](https://www.sciencedirect.com/journal/scripta-materialia) **(1)**

[Neutron computed tomography of phase separation structures in solidified CuCo alloys and investigation of relationship between the structures and melt convection during solidification](https://www.sciencedirect.com/science/article/pii/S1359646219305263)

Eita Shoji, Shosei Isogai, Rikuto Suzuki, Masaki Kubo, [TakaoTsukada](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S1359646219305263%22%20%5Cl%20%22%21), [Tetsuya Kai](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S1359646219305263#!), [Takenao Shinohara](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S1359646219305263#!), [Yoshihiro Matsumoto](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S1359646219305263#!), [Hiroyuki Fukuyama](https://www-sciencedirect-com.ezproxyd.bham.ac.uk/science/article/pii/S1359646219305263#!)

[*Scripta Materialia*](https://www.sciencedirect.com/science/journal/13596462)*, Volume 175, 15 January 2020, Pages 29-32*

[**Sensors (3)**](https://www.mdpi.com/journal/sensors)

[Neutrons for Cultural Heritage—Techniques, Sensors, and Detection](https://www.mdpi.com/1424-8220/20/2/502)

[Giulia Festa](https://sciprofiles.com/profile/546155), [Giovanni Romanelli](https://sciprofiles.com/profile/932759), [Roberto Senesi](https://sciprofiles.com/profile/779365), [Laura Arcidiacono](https://sciprofiles.com/profile/961250), [Claudia Scatigno](https://sciprofiles.com/profile/author/Y1JLNjhid0Y3RnNhcDVXQlVEdC95Z092YUJRN0U3V04wemJEWUpIeTdCUT0%3D), [Stewart F. Parker](https://sciprofiles.com/profile/385254), [M. P. M. Marques](https://sciprofiles.com/profile/570243),[Carla Andreani](https://sciprofiles.com/profile/author/VEFpT3pmU3JtbVlDaU4wby81MUJHQXJ5a0VpclZ3bU1RcnZpN08ySVVIQT0%3D)

Sensors*2020,*20*(2), 502*; [*https://doi.org/10.3390/s20020502*](https://doi.org/10.3390/s20020502)

[Accelerated Tests on Si and SiC Power Transistors with Thermal, Fast and Ultra-Fast Neutrons](https://www.mdpi.com/1424-8220/20/11/3021)

[Fabio Principato](https://sciprofiles.com/profile/1012475), [Saverio Altieri](https://sciprofiles.com/profile/1062139), [Leonardo Abbene](https://sciprofiles.com/profile/23625), [Francesco Pintacuda](https://sciprofiles.com/profile/author/b2hLZVpncWRhTHB6SkJ3N2dWN1N5cU1GN1JhNXhySE5IYmFidVNmRVNmQT0%3D)

Sensors 2020, 20*(11), 3021;*[*https://doi.org/10.3390/s20113021*](https://doi.org/10.3390/s20113021)

[Review of Microfluidic Devices and Imaging Techniques for Fluid Flow Study in Porous Geomaterials](https://www.mdpi.com/1424-8220/20/14/4030)

Amir Jahanbakhsh, Krystian L. Wlodarczyk, Duncan P. Hand, Robert R. J. Maier, M. Mercedes Maroto-Valer

*Sensors 2020, 20(14), 4030; https://doi.org/10.3390/s20144030 Published: 20 July 2020*

**2019**

Total number of papers listed: 99

[**ACS Energy Letters**](https://pubs.acs.org/journal/aelccp) **(1)**

[Dynamic Lithium Distribution upon Dendrite Growth and Shorting Revealed by Operando Neutron Imaging](https://pubs.acs.org/doi/10.1021/acsenergylett.9b01652)

Bohang Song, Indu Dhiman, John C. Carothers, Gabriel M. Veith, Jue Liu, Hassina Z. Bilheux and Ashfia Huq

*ACS Energy Lett.20194102402-2408*

*Publication Date: September 11, 2019*

[**ACS Omega**](https://pubs.acs.org/journal/acsodf) **(1)**

[Coating distribution analysis on gas diffusion layers for polymer electrolyte fuel cells by neutron and X-ray high-resolution tomography](https://pubs.acs.org/doi/10.1021/acsomega.9b01763)
Manzi-Orezzoli V, Mularczyk A, Trtik P, Halter J, Eller J, Schmidt TJ, *et al.*
*ACS Omega*. *2019; 4(17): 17236-17243.*[*https://doi.org/10.1021/acsomega.9b01763*](https://doi.org/10.1021/acsomega.9b01763)

[**Advances in Water Resources**](https://www.sciencedirect.com/journal/advances-in-water-resources) **(1)**

[Water sorptivity of unsaturated fractured sandstone: Fractal modeling and neutron radiography experiment](https://www.sciencedirect.com/science/article/pii/S0309170819301824)

Yixin Zhao, Yang Wu, Songbai Han, Shanbin Xue, A. El Abd

[*Advances in Water Resources*](https://www.sciencedirect.com/science/journal/03091708)*, Volume 130, August 2019, Pages 172-183*

[**Applied Radiation and Isotopes**](https://www.sciencedirect.com/journal/advances-in-water-resources) **(3)**

[Designing a new graphite illuminator for imaging facility of INUS to improve neutron beam uniformity and intensity](https://www.sciencedirect.com/science/article/pii/S0969804318312053)

E. Nazemi, M. Dinca, A. Movafeghi, B. Rokrok, M. H. Choopan Dastjerdi

[*Applied Radiation and Isotopes*](https://www.sciencedirect.com/science/journal/09698043)*, Volume 148, June 2019, Pages 204-212*

[A simulation study of a fan-beam time-of-flight fast-neutron tomography system](https://www.sciencedirect.com/science/article/pii/S096980431930051X)

Shifeng Sun, Xiaoping Ouyang

[*Applied Radiation and Isotopes*](https://www.sciencedirect.com/science/journal/09698043)*, Volume 149, July 2019, Pages 52-59*

[Image quality enhancement in Neutron Computerized Tomography based on projection exposure time adjustment](https://www.sciencedirect.com/science/article/pii/S0969804318311357)

Salwa R. Soliman, Hala H. Zayed, Mazen M. Selim, H. Kasban, T. Mongy

[*Applied Radiation and Isotopes*](https://www.sciencedirect.com/science/journal/09698043)*, Volume 154, December 2019, Article 108862*

[**Archaeometry**](https://onlinelibrary.wiley.com/journal/14754754) **(1)**

[Recycled Blessings: an Investigative Case Study of a Rewrapped Egyptian Votive Mummy using Novel and Established 3d Imaging Techniques](https://onlinelibrary.wiley.com/doi/abs/10.1111/arcm.12477)

CA Raymond, JJ Bevitt, Yann Tristant, RK Power, Anthony William Lanati, CJ Davey, JS Magnussen, SM Clark

*Archaeometry, Volume 61, Issue 5, Pages 1160-1174*

[**ArXiv.org**](https://www.sciencedirect.com/journal/advances-in-water-resources) **(2)**

[Tomographic Reconstruction of Triaxial Strain Fields from Bragg-Edge Neutron Imaging](https://arxiv.org/pdf/1906.08506v3.pdf)

J.N. Hendriks, A.W.T. Gregg, R.R. Jackson, C.M. Wensrich, A. Wills, A.S. Tremsin, T. Shinohara, V. Luzin and O. Kirstein

*ArXiv 17-09-2019*

[Neutron ghost imaging](https://arxiv.org/pdf/1911.06145.pdf)

Andrew M. Kingston, Glenn R. Myers, Daniele Pelliccia, Filomena Salvemini, Joseph J. Bevitt, Ulf Garbe, David M. Paganin

*ArXiv: 1911.06145v1 13 Nov 2019*

[**Biology Journal of the Linnaen Society**](https://academic.oup.com/biolinnean) **(1)**

[The repeated evolution of dental apicobasal ridges in aquatic-feeding mammals and reptiles](https://academic.oup.com/biolinnean/article/127/2/245/5427318)

Matthew R McCurry, Alistair R Evans, Erich M G Fitzgerald, Colin R McHenry, Joseph Bevitt, Nicholas D Pyenson

Biological Journal of the Linnean Society, *Volume 127, Issue 2, June 2019, Pages 245–259,*[*https://doi.org/10.1093/biolinnean/blz02*](https://doi.org/10.1093/biolinnean/blz025)

[**Biology Letters**](https://royalsocietypublishing.org/journal/rsbl) **(1)**

[Retention of fish-like odontode overgrowth in Permian tetrapod dentition supports outside-in theory of tooth origins](https://royalsocietypublishing.org/doi/abs/10.1098/rsbl.2019.0514)

Yara Haridy, Bryan M Gee, Florian Witzmann, Joseph J Bevitt, Robert R Reisz

*Biology letters, Volume 15, Issue 9, 11 September 2019* [*https://doi.org/10.1098/rsbl.2019.0514*](https://doi.org/10.1098/rsbl.2019.0514)

[**Cement and Concrete Composites**](https://www.sciencedirect.com/journal/cement-and-concrete-composites/vol/104/suppl/C) **(2)**

[The colours of concrete as seen by X-rays and neutrons](https://www.sciencedirect.com/science/article/pii/S0958946518313489)

Emmanuel Roubin, Edward Andò, Stéphane Roux

[*Cement and Concrete Composites*](https://www.sciencedirect.com/science/journal/09589465)*, Volume 104, November 2019, Article 103336*

[Quantifying fluid filling of the air voids in air entrained concrete using neutron radiography](https://www.sciencedirect.com/science/article/pii/S0958946519301167)

Mehdi Khanzadeh Moradllo, Chunyu Qiao, Hope Hall,  M. Tyler Ley, W. Jason Weiss

[*Cement and Concrete Composites*](https://www.sciencedirect.com/science/journal/09589465)*, Volume 104, November 2019, Article 103407*

[**Cement and Concrete Research**](https://www.sciencedirect.com/journal/cement-and-concrete-research/vol/118/suppl/C) **(1)**

[Capillary imbibition in mortars with natural pozzolan, limestone powder and slag evaluated through neutron radiography, electrical conductivity, and gravimetric analysis](https://www.sciencedirect.com/science/article/pii/S0008884618308962)

N. Alderete, Y. Villagrán Zaccardi, D. Snoeck, B. Van Belleghem, N. De Belie

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)*, Volume 118, April 2019, Pages 57-68*

[**Chemical Engineering Science**](https://www.sciencedirect.com/journal/chemical-engineering-science) **(2)**

[Estimation of the local sublimation front velocities from neutron radiography and tomography of particulate matter](https://www.sciencedirect.com/science/article/pii/S0009250919307584)

S. Gruber, N. Vorhauer, M. Schulz, M. Hilmer, P. Först

[*Chemical Engineering Science*](https://www.sciencedirect.com/science/journal/00092509)*, In press, journal pre-proof, Available online 8 October 2019, Article 115268*

[Flow visualization of heavy oil in a packed bed using real-time neutron radiography](https://www.sciencedirect.com/science/article/pii/S000925091830798X)

Eita Shoji, Koshiro Yamagiwa,  Masaki Kubo, Takao Tsukada, Shogo Teratani

[*Chemical Engineering Science*](https://www.sciencedirect.com/science/journal/00092509)*, Volume 196, 16 March 2019, Pages 425-432*

[**Chemie Ingenieur Technik**](https://onlinelibrary.wiley.com/journal/15222640) **(1)**

[Tracking of Particles in Froth Using Neutron Imaging](file:///E%3A%5CToolkit%5CBackup%5CJOHN-PC%5Cc%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5CNew%20database%5CTracking%20of%20Particles%20in%20Froth%20Using%20Neutron%20Imaging)

[Sascha Heitkam](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Heitkam%2C+Sascha), [Tobias Lappan](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Lappan%2C+Tobias) [Sven Eckert](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Eckert%2C+Sven) , [Pavel Trtik](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Trtik%2C+Pavel) ,[Kerstin Eckert](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Eckert%2C+Kerstin)

*Chemie Ingenier Technik Vol. 91, Issue 7*

*First published: 17 April 2019*

[*https://doi.org/10.1002/cite.201800127*](https://doi.org/10.1002/cite.201800127)

[**Designs**](https://www.mdpi.com/journal/designs) **(1)**

[Design of a Pixelated Imaging System for Fast Neutron Sources](https://www.mdpi.com/2411-9660/3/2/25)

by [John Chatzakis](https://sciprofiles.com/profile/699672), [Iraklis Rigakis](https://sciprofiles.com/profile/author/UVdic1ZDVXUxMjA3TzdUemt0RVBwWDU0aXllTTdKTXFmend2WXBsS0dtZz0%3D), [Syed Hassan](https://sciprofiles.com/profile/704027), [Eugene Laurence Clark](https://sciprofiles.com/profile/author/WXEvV0w2ZllpbDBZazQ2UGdpZEFDM1JXUDM2Y3V6Mm45T3hIL3lNNHRxMD0%3D), [Paul Lee](https://sciprofiles.com/profile/author/WXEvV0w2ZllpbDBZazQ2UGdpZEFDM1JXUDM2Y3V6Mm45T3hIL3lNNHRxMD0%3D),[Michael Tatarakis](https://sciprofiles.com/profile/author/c0JGY3Q0QXdScHZQeC83WFgrMnhZaXJ1a1Z3cEF5L2pYaEl6aWp2SWRTOD0%3D)

Designs*2019,*3*(2), 25;*[*https://doi.org/10.3390/designs3020025*](https://doi.org/10.3390/designs3020025)

[**Energy**](https://www.sciencedirect.com/journal/chemical-engineering-science) **(1)**

[Visualization of liquid water in a lung-inspired flow-field based polymer electrolyte membrane fuel cell via neutron radiography](https://www.sciencedirect.com/science/article/pii/S0360544218325155)

J. I. S. Cho, T. P. Neville, P. Trogadas, Q. Meyer, M. -O. Coppens

[*Energy*](https://www.sciencedirect.com/science/journal/03605442)*, Volume 170, 1 March 2019, Pages 14-21*

[**Flow Measurement and Instrumentation**](https://www.sciencedirect.com/journal/flow-measurement-and-instrumentation/vol/66/suppl/C) **(1)**

[In-depth analysis of high-speed, cold neutron imaging of air-water two-phase flows](https://www.sciencedirect.com/science/article/pii/S0955598618303984)

R. Zboray, P. Trtik

[*Flow Measurement and Instrumentation*](https://www.sciencedirect.com/science/journal/09555986)*, Volume 66, April 2019, Pages 182-189*

[**Frontiers in Earth Science**](https://www.frontiersin.org/articles/10.3389/feart.2019.00306/full) **(4)**

[A juvenile specimen of the trematopid Acheloma from Richards Spur, Oklahoma and challenges of trematopid ontogeny](https://www.frontiersin.org/articles/10.3389/feart.2019.00038/full)

Bryan M Gee, Joseph J Bevitt, Robert R Reisz

*Frontiers in Earth Science, Volume 7, Pages 38, 12 March 2019* [*https://doi.org/10.3389/feart.2019.00038*](https://doi.org/10.3389/feart.2019.00038)

[A new captorhinid from the Permian cave system near Richards spur, oklahoma, and the taxic diversity of captorhinus at this locality](https://www.frontiersin.org/articles/10.3389/feart.2019.00112/full)

Michael DeBraga, Joseph J Bevitt, Robert R Reisz

*Frontiers in Earth Science, Volume 7, Pages 112,* 15 *May 2019* [*https://doi.org/10.3389/feart.2019.00112*](https://doi.org/10.3389/feart.2019.00112)

[Neutron imaging of cadmium sorption and transport in porous rocks](https://www.frontiersin.org/articles/10.3389/feart.2019.00306/full)
Cordonnier B, Pluymakers A, Tengattini A, Marti S, Kaestner A, Fusseis F, *et al.*
*Frontiers in Earth Science*. *2019; 7: 306 (11 pp.).*[*https://doi.org/10.3389/feart.2019.00306*](https://doi.org/10.3389/feart.2019.00306)

[Implementation of dynamic neutron radiography and integrated X-ray and neutron tomography in porous carbonate reservoir rocks](https://www.frontiersin.org/articles/10.3389/feart.2019.00329/full)
Zambrano M, Hameed F, Anders K, Mancini L, Tondi E
*Frontiers in Earth Science*. *2019; 7: 329 (15 pp.).*[*https://doi.org/10.3389/feart.2019.00329*](https://doi.org/10.3389/feart.2019.00329)

[**Fusion Engineering and Design**](https://www.sciencedirect.com/journal/fusion-engineering-and-design/vol/146/part/PB) **(1)**

[Preparation for a neutronics experiment using a discharge fusion device and an imaging plate neutron detector](https://www.sciencedirect.com/science/article/pii/S0920379619303266)

Keisuke Mukai, Satoshi Konishi

[*Fusion Engineering and Design*](https://www.sciencedirect.com/science/journal/09203796)*, Volume 146, Part B, September 2019, Pages 1633-1636*

[**Heritage Science**](https://heritagesciencejournal.springeropen.com/articles/10.1186/s40494-019-0266-x) **(1)**

[Multi-modal tomography to assess dechlorination treatments of iron-based archaeological artifacts](https://heritagesciencejournal.springeropen.com/articles/10.1186/s40494-019-0266-x)
Jacot-Guillarmod M, Schmidt-Ott K, Mannes D, Kaestner A, Lehmann E, Gervais C
*Heritage Science*. 2019; 7(1): 29 (14 pp*.).*[*https://doi.org/10.1186/s40494-019-0266-x(link is external)*](https://doi.org/10.1186/s40494-019-0266-x)

[**Instruments**](https://www.mdpi.com/journal/instruments) **(1)**

[Development of a Neutron Imaging Station at the n\_TOF Facility of CERN and Applications to Beam Intercepting Devices](https://www.mdpi.com/2410-390X/3/2/32)

[Federica Mingrone](https://sciprofiles.com/profile/726099), [Marco Calviani](https://sciprofiles.com/profile/709965), [Claudio Torregrosa Martin](https://sciprofiles.com/profile/author/SVFnSS85TXNjeWdFdytEalY3NjlZNUY1UEx3am9pZ3BBRmdEZU9pZVF4QT0%3D), [Oliver Aberle](https://sciprofiles.com/profile/author/ZGRxcGVSSFd6K2ZwY0tWeEgwRG5YZFpRS0FRYVpnOXlVdDJ2STZDNzlXYz0%3D), [Michael Bacak](https://sciprofiles.com/profile/author/L2tTNHdwK2dNbnpjSVpMdnVNcFhtK2hmSm9MU0JTVnVXdXhnV05EaXdkZz0%3D), [Enrico Chiaveri](https://sciprofiles.com/profile/author/Q3AxRldTTXA2MFdHTnFGUi9MdDFiaDh5akpHSHR0dENzdjJlcjNJdnBIOD0%3D), [Elvis Fornasiere](https://sciprofiles.com/profile/author/OFFhdWNBS1VjN2VFQWUwUWNOa0dpMlJoYm9FRzVQVFg1R1J3cTB2MlZjOD0%3D), [Antonio Perillo-Marcone](https://sciprofiles.com/profile/author/VVZLWTNWY3NySFRjTDFlWi8xMVJVQmVrVDY1WmRQbUJlYjE1L0ZZcDhGND0%3D),[Vasilis Vlachoudis](https://sciprofiles.com/profile/author/cW1xUEs4Ky8zYndrZ3ZEUURXZ2xHS1U5ZGhaQW02QnNEazNYM08rdXdtaz0%3D) and [the n\_TOF Collaboration](https://www.mdpi.com/search?authors=the%20n_TOF%20Collaboration&orcid=)

*Instruments*[*Volume 3*](https://www.mdpi.com/2410-390X/3)*,* [*Issue 2*](https://www.mdpi.com/2410-390X/3/2)*,* [*10.3390/instruments3020032*](https://www.mdpi.com/2410-390X/3/2/32)

[**International Journal of Advanced Engineering, Management and Science**](https://ijaems.com/) **(1)**

[Neutron Imaging and Tomography with Medipix2 and Dental Microroentgenography: An Over View](https://www.researchgate.net/publication/330214658_Neutron_Imaging_and_Tomography_with_Medipix2_and_Dental_Microroentgenography_An_Over_View)

M. N. Islam, H. Akhter, R. Rashid, M. S. Alam, M. Hoq, T. Fujiwara, S.Kenji and H.Takahashi

*International Journal of Advanced Engineering, Management and Science (IJAEMS) Vol 5, Issue 1, Jan 2019*

*https://www.researchgate.net/deref/https%3A%2F%2Fdx.doi.org%2F10.22161%2Fijaems.5.*

*1.1*

[**International Journal of Mechanical Sciences**](https://ijaems.com/) **(1)**

[Application of neutron imaging to detect and quantify fatigue cracking](https://www.sciencedirect.com/science/article/pii/S0020740318342474)

A. Reid, M. Marshall, S. Kabra, T. Minniti, [W.Kockelmann, T.Connolley, A.James, T.J.Marrow,](https://www.sciencedirect.com/science/article/pii/S0020740318342474?via%3Dihub#!) M. Mostafav

[*International Journal of Mechanical Sciences*](https://www.sciencedirect.com/science/journal/00207403)*, Volume 159, August 2019, Pages 182-194*

[**International Journal of Solids and Structures**](https://www.sciencedirect.com/journal/international-journal-of-solids-and-structures) **(1)**

[Application and validity of the Radon transform applied to axisymmetric neutron strain imaging](https://www.sciencedirect.com/science/article/abs/pii/S0020768319303385)

[H.J.KirkwoodabC.M.WensrichcA.M.ParadowskadB.Abbey](https://www.sciencedirect.com/science/article/abs/pii/S0020768319303385#!)

[*International Journal of Solids and Structures*](https://www.sciencedirect.com/science/journal/00207683)*,* [*Volumes 180–181*](https://www.sciencedirect.com/science/journal/00207683/180/supp/C)*, 15 December 2019, Pages 137-146*

[*https://doi.org/10.1016/j.ijsolstr.2019.07.019*](https://doi.org/10.1016/j.ijsolstr.2019.07.019)

[**IOP Conference Series**](https://iopscience.iop.org/journal/1757-899X) **(1)**

[Following Microstructures during Deformation: In situ X-ray/Neutron Diffraction and HRDIC](https://iopscience.iop.org/article/10.1088/1757-899X/580/1/012010)

E Polatidis, K Sofinowski, W-N Hsu and H Van Swygenhoven

Published under licence by IOP Publishing Ltd
[*IOP Conference Series: Materials Science and Engineering*](https://iopscience.iop.org/journal/1757-899X)*,*[*Volume 580*](https://iopscience.iop.org/volume/1757-899X/580)*,*[*40th Risø International Symposium on Materials Science: Metal Microstructures in 2D, 3D and 4D 2–6 September 2019, Department of Mechanical Engineering, Technical University of Denmark, Denmark*](https://iopscience.iop.org/issue/1757-899X/580/1)

[**Journal of Applied Crystallography**](https://journals.iucr.org/j/) **(1)**

[Full-field neutron microscopy based on refractive optics](http://scripts.iucr.org/cgi-bin/paper?S1600576719012858)
Leemreize H, Knudsen EB, Birk JO, Strobl M, Detlefs C, Poulsen HF
*Journal of Applied Crystallography*. *2019; 52: 1299-1311.*[*https://doi.org/10.1107/S1600576719012858*](https://doi.org/10.1107/S1600576719012858)

[**Journal of Cultural Heritage**](https://www.sciencedirect.com/science/article/abs/pii/S1296207419305643?via%3Dihub)  **(1)**

[Effect of coating systems as a barrier to humidity for lutherie woods studied by neutron radiography](https://www.sciencedirect.com/science/article/abs/pii/S1296207419305643?via%3Dihub)
Festa G, Lämmlein SL, Senesi R, Price J, Chiesa C, Scatigno C, *et al.*
*Journal of Cultural Heritage*. *2019.*[*https://doi.org/10.1016/j.culher.2019.11.004*](https://doi.org/10.1016/j.culher.2019.11.004)

[**Journal of the Electrochemical Society**](https://doaj.org/toc/2313-433X?source=%7B%22query%22%3A%7B%22filtered%22%3A%7B%22filter%22%3A%7B%22bool%22%3A%7B%22must%22%3A%5B%7B%22terms%22%3A%7B%22index.issn.exact%22%3A%5B%222313-433X%22%5D%7D%7D%2C%7B%22term%22%3A%7B%22_type%22%3A%22article%22%7D%7D%25) **(1)**

[Selective Visualization of Water in Fuel Cell Gas Diffusion Layers with Neutron Dark-Field Imaging](https://iopscience.iop.org/article/10.1149/2.1011902jes)

M. Siegwart, R. P. Harti, V. Manzi-Orezzoli, J. Valsecchi, M. Strobl, C. Grünzweig, T. J. Schmidt, P. Boillat

[*Journal of The Electrochemical Society*](https://iopscience.iop.org/journal/1945-7111)*,*[*Volume 166*](https://iopscience.iop.org/volume/1945-7111/166)*,*[*Number 2*](https://iopscience.iop.org/issue/1945-7111/166/2)

*Published 1 February 2019*

[**Journal of Imaging**](https://doaj.org/toc/2313-433X?source=%7B%22query%22%3A%7B%22filtered%22%3A%7B%22filter%22%3A%7B%22bool%22%3A%7B%22must%22%3A%5B%7B%22terms%22%3A%7B%22index.issn.exact%22%3A%5B%222313-433X%22%5D%7D%7D%2C%7B%22term%22%3A%7B%22_type%22%3A%22article%22%7D%7D%25) **(1)**

[In-Situ Imaging of Molten High-Entropy Alloys Using Cold Neutrons](https://www.mdpi.com/2313-433X/5/2/29)

[Nicholas Derimow](https://sciprofiles.com/profile/author/VVlCb0M2SjIrdUplaU1KQmFGVlY3VFpOam50Ym1YZ1A2c2FFazUwcTdnRT0%3D) ,[Louis J. Santodonato](https://sciprofiles.com/profile/author/M2doQjNUM0Y2N00rQ0NRU0JhdlYrUFlKbzllSnQ2QlVUckdrektrN1Npdz0%3D) ,[Benjamin E. MacDonald](https://sciprofiles.com/profile/635176) ,[Bryan Le](https://sciprofiles.com/profile/author/aHB5eWp6NGdpVjdxeGpaN2o1dSswZz09) ,[Enrique J. Lavernia](https://sciprofiles.com/profile/author/aEkvZzVnWHVFWjJWSmlrS1l6R2d2ZXdlcnBYQStKa0N0dHcwZWdPWi9qcz0%3D) and[Reza Abbaschian](https://sciprofiles.com/profile/345030)

J. Imaging *2019,*5*(2), 29;*[*https://doi.org/10.3390/jimaging5020029*](https://doi.org/10.3390/jimaging5020029)*- 16 Feb 2019*

[**Journal of Lightwave Technology**](https://ieee-jlt.org/) **(1)**

[Neutron imaging with Li-glass based multicore SCIntillating FIber (SCIFI)](https://ieeexplore.ieee.org/document/8794639)
Moore ME, Trtik P, Lousteau J, Pugliese D, Brambilla G, Hayward JP
*Journal of Lightwave Technology. 2019; 37(22): 5699-5706.*[*https://doi.org/10.1109/JLT.2019.2934497*](https://doi.org/10.1109/JLT.2019.2934497)

[**Journal of Magnetism and Magnetic Materials (1)**](https://www.sciencedirect.com/journal/journal-of-magnetism-and-magnetic-materials/vol/475/suppl/C)

[High-resolution neutron depolarization microscopy of the ferromagnetic transitions in Ni3Al and HgCr2Se4 under pressure](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!)

[Pau Jorba](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Michael Schulz](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Daniel S.Hussey](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Muhammad Abir](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Marc Seifert](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Vladimir Tsurkan](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Alois Loidl](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Christian Pfleiderer](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!), [Boris Khaykovich](https://www.sciencedirect.com/science/article/abs/pii/S0304885318327793?via%3Dihub#!)

[*Journal of Magnetism and Magnetic Materials*](https://www.sciencedirect.com/science/journal/03048853)

[*Volume 475*](https://www.sciencedirect.com/science/journal/03048853/475/supp/C)*, 1 April 2019, Pages 176-183*

[*https://doi.org/10.1016/j.jmmm.2018.11.086*](https://doi.org/10.1016/j.jmmm.2018.11.086)

[**Journal of Materials Science**](https://www.springer.com/journal/10853) **(1)**

[Influence of varnishing on the vibro-mechanical properties of wood used for violins](https://link.springer.com/article/10.1007/s10853-019-03440-9)
Lämmlein SL, Mannes D, van Damme B, Burgert I, Schwarze FWM
*Journal of Materials Science. 2019; 54(11): 8063-8095.*[*https://doi.org/10.1007/s10853-019-03440-9*](https://doi.org/10.1007/s10853-019-03440-9)

[**Journal of Non-Crystalline Solids:X**](https://www.sciencedirect.com/journal/journal-of-non-crystalline-solids-x/vol/3/suppl/C) **(1)**

[Borosilicate glass layers on Mycenaean glass: surface alterations by glass-borax-gold interactions](https://www.sciencedirect.com/science/article/pii/S2590159119300330?via%3Dihub)
Drünert F, Lind F, Vontobel P, Kamitsos EI, Wondraczek L, Möncke D
*Journal of Non-Crystalline Solids: X. 2019; 3: 100020 (7 pp.).*[*https://doi.org/10.1016/j.nocx.2019.100020*](https://doi.org/10.1016/j.nocx.2019.100020)

[**Journal of Nondestructive Evaluation**](https://www.journals.elsevier.com/journal-of-membrane-science/) **(1)**

[Preliminary Experimentation of Fast Neutron Radiography with D-T Neutron Generator at BARC](https://link.springer.com/article/10.1007/s10921-018-0550-9)

S. Bishnoi, P. S. Sarkar, R. G. Thomas, T. Patel, M. Pal, P. S. Adhikari, A. Sinha, A. Saxena, S. C. Gadkari

*Journal of Nondestructive Evaluation, March 2019, 38:13*

[**Journal of Nuclear Materials**](https://www.journals.elsevier.com/journal-of-membrane-science/) **(1)**

[Hydrogen diffusion and precipitation in duplex zirconium nuclear fuel cladding quantified by high-resolution neutron imaging](https://www.sciencedirect.com/science/article/pii/S0022311519303101)

W. Gong, P. Trtik, A. W. Colldeweih, L. I. Duarte, J. Bertsch

[*Journal of Nuclear Materials*](https://www.sciencedirect.com/science/journal/00223115)*, Volume 526, 1 December 2019, Article 151757*

[**Journal of Nuclear Science and Technology**](https://www.journals.elsevier.com/journal-of-membrane-science/) **(1)**

[Neutron spectrum change with thermal moderator temperature in a compact electron accelerator-driven neutron source and its effects on spectroscopic neutron transmission imaging](https://www.tandfonline.com/doi/full/10.1080/00223131.2018.1561339)

Hirotaku Ishikawa, Tetsuya Kai, Hirotaka Sato & Takashi Kamiyama

*Journal of Nuclear Science and Technology, 56:2, 221-227*

*DOI:*[*10.1080/00223131.2018.1561339*](https://doi.org/10.1080/00223131.2018.1561339)

[**Journal of Physical Chemistry**](https://pubs.acs.org/toc/jpchax/current) **(1)**

[Visualization of the Catalyzed Nuclear-Spin Conversion of Molecular Hydrogen Using Energy-Selective Neutron Imaging](https://pubag.nal.usda.gov/catalog/6431247)

[Romanelli, Giovanni](https://pubag.nal.usda.gov/?q=%22Romanelli%2C+Giovanni%22&search_field=author), [Minniti, Triestino](https://pubag.nal.usda.gov/?q=%22Minniti%2C+Triestino%22&search_field=author), [Škoro, Goran](https://pubag.nal.usda.gov/?q=%22S%CC%8Ckoro%2C+Goran%22&search_field=author), [Krzystyniak, Maciej](https://pubag.nal.usda.gov/?q=%22Krzystyniak%2C+Maciej%22&search_field=author), [Taylor, James](https://pubag.nal.usda.gov/?q=%22Taylor%2C+James%22&search_field=author), [Fornalski, Damian](https://pubag.nal.usda.gov/?q=%22Fornalski%2C+Damian%22&search_field=author), [Fernandez-Alonso, Felix](https://pubag.nal.usda.gov/?q=%22Fernandez-Alonso%2C+Felix%22&search_field=author)

[*Journal of Physical Chemistry 2019 v.123 no.18*](https://pubag.nal.usda.gov/?f%5Bjournal_name%5D%5B%5D=Journal+of+physical+chemistry&f%5Bpublication_year_rev%5D%5B%5D=7981-2019&f%5Bsource%5D%5B%5D=2019+v.123+no.18)*pp. 11745-11751*

[**Journal of Physics D - Applied Physics**](https://iopscience.iop.org/journal/0022-3727) **(2)**

[Polarization measurements in neutron imaging](http://www.forskningsdatabasen.dk/en/catalog/2442601355)

*Strobl, M.; Heimonen, H.; Schmidt, S.*

*2019-01-01 Journal of Physics D-applied Physics*

*Volume: 52 Issue: 12 DOI: 10.1088/1361-6463/aafa5e*

[Three dimensional polarimetric neutron tomography—beyond the phase-wrapping limit](https://iopscience.iop.org/article/10.1088/1361-6463/ab0aba)
Morten Sales, Takenao Shinohara, Michael Korning Sørensen, Erik B Knudsen, Anton Tremsin, Markus Strobl, Søren Schmidt

*Journal of Physics D: Applied Physics*. *2019; 52(20): 205001* [*https://doi.org/10.1088/1361-6463/ab0aba*](https://doi.org/10.1088/1361-6463/ab0aba)

[**Journal of Power Sources**](https://www.journals.elsevier.com/journal-of-power-sources) **(4)**

[Effect of compression on the water management of polymer electrolyte fuel cells: An in-operando neutron radiography study](https://www.sciencedirect.com/science/article/abs/pii/S0378775318312898?via%3Dihub)

[Y.Wu](https://www.sciencedirect.com/science/article/abs/pii/S0378775318312898?via%3Dihub#!), [J.I.S.Cho](https://www.sciencedirect.com/science/article/abs/pii/S0378775318312898?via%3Dihub#!), [X.Lu, L.Rasha, T.P.Neville, J.Millichamp, R.Ziesche, N.Kardjilov,](https://www.sciencedirect.com/science/article/abs/pii/S0378775318312898?via%3Dihub#!) [H.Markötter, P.Shearing, D.J.L.Brett](https://www.sciencedirect.com/science/article/abs/pii/S0378775318312898?via%3Dihub#!)

*Journal of Power Sources*

[*Volume 412*](https://www.sciencedirect.com/science/journal/03787753/412/supp/C)*, 1 February 2019, Pages 597-605*

*https://doi.org/10.1016/j.jpowsour.2018.11.048*

[Probing lithiation and delithiation of thick sintered lithium-ion battery electrodes with neutron imaging](https://www.sciencedirect.com/science/article/pii/S0378775319302009)

Ziyang Nie, Patrick McCormack, Hassina Z. Bilheux, Jean C. Bilheux, Gary M. Koenig

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)*, Volume 419, 15 April 2019, Pages 127-136*

[Monitoring lead-acid battery function using operando neutron radiography](https://www.sciencedirect.com/science/article/pii/S0378775319309693)

Jose Miguel Campillo-Robles, Damian Goonetilleke, Daniel Soler, Neeraj Sharma,

Volkan Karahan

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)*, Volume 438, 31 October 2019, Article 226976*

[Effect of cell compression on the water dynamics of a polymer electrolyte fuel cell using in-plane and through-plane in-operando neutron radiography](https://www.sciencedirect.com/science/article/pii/S0378775319310675)

Nivedita Kulkarni, Jason I. S. Cho, Lara Rasha, Rhodri E. Owen, Dan J. L. Brett

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)*, Volume 439, 1 November 2019, Article 227074*

[**Journal of Propulsion and Power**](https://arc.aiaa.org/loi/jpp) **(1)**

[Simultaneous Neutron Radiography of Metal Nozzle Geometry and Near-Field Spray](https://arc.aiaa.org/doi/full/10.2514/1.B37304)

[Cary D. Smith](https://arc.aiaa.org/author/Smith%2C%2BCary%2BD), [Mark T. Gragston](https://arc.aiaa.org/author/Gragston%2C%2BMark%2BT), [Zhili Zhang](https://arc.aiaa.org/author/Zhang%2C%2BZhili), [Timothy Ombrello](https://arc.aiaa.org/author/Ombrello%2C%2BTimothy), [Campbell D. Carter](https://arc.aiaa.org/author/Carter%2C%2BCampbell%2BD), [Xin Tong](https://arc.aiaa.org/author/Tong%2C%2BXin), [Louis J. Santodonato](https://arc.aiaa.org/author/Santodonato%2C%2BLouis%2BJ), [Hassina Z. Bilheux](https://arc.aiaa.org/author/Bilheux%2C%2BHassina%2BZ)

*Journal of Propulsion and Power Published Online* [*https://doi.org/10.2514/1.B37304*](https://doi.org/10.2514/1.B37304)

[**Journal of Vertebrate Paleontology**](Journal%20of%20Vertebrate%20Paleontology) **(1)**

[Neurocranial anatomy of *Seymouria* from Richards Spur, Oklahoma](https://www.tandfonline.com/doi/abs/10.1080/02724634.2019.1694535)

Kayla D Bazzana, Bryan M Gee, Joseph J Bevitt, Robert R Reisz

*Journal of Vertebrate Paleontology, Volume 39, Issue 5, Pages e1694535*

[**MethodsX**](https://arc.aiaa.org/loi/jpp) **(1)**

[Light Yield Enhancement of 157-Gadolinium Oxysulfide Scintillator Screens for the High-Resolution Neutron Imaging](https://www.sciencedirect.com/science/article/pii/S2215016118302085)

Jan Crha, Joan Vila-Comamala, Eberhard Lehmann, Christian David, Pavel Trtik

[*MethodsX*](https://www.sciencedirect.com/science/journal/22150161)*, Volume 6, 2019, Pages 107-114*

[**Nature Communications**](https://www.nature.com/ncomms/) **(2)**

[Visualization and quantification of inhomogeneous and anisotropic magnetic fields by polarized neutron grating interferometry](https://www.nature.com/articles/s41467-019-11590-2)
Valsecchi J, Harti RP, Raventós M, Siegwart MD, Morgano M, Boillat P, *et al.*
*Nature Communications*. *2019; 10(1): 3788 (9 pp.).*[*https://doi.org/10.1038/s41467-019-11590-2*](https://doi.org/10.1038/s41467-019-11590-2)

[Visualization of supercritical water *pseudo*-boiling at Widom line crossover](https://www.nature.com/articles/s41467-019-12117-5)

Florentina Maxim, Cristian Contescu, Pierre Boillat, Bojan Niceno, Konstantinos Karalis, Andrea Testino, Christian Ludwig

[*Nature Communications*](https://www.nature.com/ncomms) *volume 10, Article number: 4114 (2019)*

[**Neutron News**](https://www.tandfonline.com/toc/gnnw20/current) **(1)**

[The NEUWAVE workshop series on advanced neutron imaging celebrated its tenth event](https://www.tandfonline.com/doi/full/10.1080/10448632.2019.1659082)
Strobl M, Lehmann E

*Neutron News,* 2019*; 30(2-3): 2-3.*[*https://doi.org/10.1080/10448632.2019.1659082*](https://doi.org/10.1080/10448632.2019.1659082)

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002/833/supp/C) **(17)**

[Study of the fish fossil Notelops brama from Araripe-Basin Brazil by Neutron Tomography](https://www.sciencedirect.com/science/article/pii/S0168900218317984)

Reynaldo Pugliesi, Marco A. Stanojev Pereira, Marcos L. G. Andrade, Juliana M. L. Basso, Ivone C. Gonzales

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 919, 1 March 2019, Pages 68-72*

[Fast neutron resonance radiography for elemental imaging](https://www.sciencedirect.com/science/article/pii/S016890021831831X)

David Perticone, Brandon W. Blackburn, Gongyin Chen, Wilbur A. Franklin, Vitaliy Ziskin

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 922, 1 April 2019, Pages 71-75*

[On the possibility to investigate irradiated fuel pins non-destructively by digital neutron radiography with a neutron-sensitive microchannel plate detector with Timepix readout](https://www.sciencedirect.com/science/article/pii/S0168900219301871)

A. S. Tremsin,  A. E. Craft,  G. C. Papaioannou,  A. T. Smolinski, K. D. Riley

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 927, 21 May 2019, Pages 109-118*

[Non-destructive mapping of water distribution through white-beam and energy-resolved neutron imaging](https://www.sciencedirect.com/science/article/pii/S0168900219302207)

A. S. Tremsin, T. Shinohara, K. Oikawa, Jiaqi Li, P. J. M. Monteiro

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 927, 21 May 2019, Pages 174-183*

[A neutron radiography beamline relying on the Isfahan Miniature Neutron Source Reactor](https://www.sciencedirect.com/science/article/pii/S0168900219302761)

M. H. Choopan Dastjerdi, J. Mokhtari,  A. Asgari, E. Ghahremani

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 928, 1 June 2019, Pages 20-25*

[Qualification and development of fast neutron imaging scintillator screens](https://www.sciencedirect.com/science/article/pii/S0168900219304206)

R. Zboray, R. Adams, M. Morgano, Z. Kis

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 930, 21 June 2019, Pages 142-150*

[Analysis of the detective quantum efficiency of a neutron image plate detector](https://www.sciencedirect.com/science/article/pii/S016890021930436X)

S. Masalovich

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 930, 21 June 2019, Pages 151-155*

[Optimization and characterization of the PGAI-NT instrument’s Neutron Tomography set-up at MLZ](https://www.sciencedirect.com/science/article/pii/S0168900219304590)

E. J. Kluge, C. Stieghorst, Zs. Révay, P. Kudějová, J. Jolie

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 932, 11 July 2019, Pages 1-15*

[Beam calculation method for a neutron camera](https://www.sciencedirect.com/science/article/pii/S0168900219308241)

U. Steinitz, A. Krakovich, I. Neder

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 940, 1 October 2019, Pages 88-92*

[Estimation of volumetric water content during imbibition in porous building material using real time neutron radiography and artificial neural network](https://www.sciencedirect.com/science/article/pii/S0168900219308952)

E. Nazemi, M. Dinca, A. Movafeghi, B. Rokrok, M. H. Choopan Dastjerdi

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 940, 1 October 2019, Pages 344-350*

[Neutron imaging at the low flux training and research reactor AKR-2](https://www.sciencedirect.com/science/article/pii/S0168900219308733)

C. Lange, N. Bernt

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 941, 11 October 2019, Article 162292*

[Statistical image reconstruction for high-throughput thermal Neutron Computed Tomography](https://www.sciencedirect.com/science/article/pii/S0168900219309763)

J. M. C. Brown, U. Garbe, D. Pelliccia

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 942, 21 October 2019, Article 162396*

[Energy-selective neutron imaging by exploiting wavelength gradients of double crystal monochromators—Simulations and experiments](https://www.sciencedirect.com/science/article/pii/S0168900219310277)

A. M. Al-Falahat, N. Kardjilov, T. V. Khanh, H. Markötter, I. Manke

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 943, 1 November 2019, Article 162477*

[Bragg-edge neutron transmission spectrum analysis using a high-speed-camera-type time-of-flight neutron imaging detector](https://www.sciencedirect.com/science/article/pii/S0168900219310435)

Hirotaka Sato, Koh-ichi Mochiki, Kenta Tanaka, Ken Ishizuka, Yoshiaki Kiyanagi

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 943, 1 November 2019, Article 162501*

[A compact MPPC-based camera for omnidirectional (4π) fast-neutron imaging based on double neutron–proton elastic scattering](https://www.sciencedirect.com/science/article/pii/S0168900219310241)

Xiaoyu Pang, Zhiming Zhang, Jipeng Zhang, Wei Zhou, Daowu Li

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 944, 11 November 2019, Article 162471*

[Cross-sectional imaging of quenched region in a steel rod using energy-resolved neutron tomography](https://www.sciencedirect.com/science/article/pii/S0168900219310630)

Kenichi Watanabe, Triestino Minniti, Hirotaka Sato, Anton S. Tremsin, Yoshiaki Kiyanagi

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 944, 11 November 2019, Article 162532*

[A study on the feasibility of fast neutron imaging using the D–D fusion neutrons of the KSTAR tokamak](https://www.sciencedirect.com/science/article/pii/S0168900219310939)

Youngseok Lee, Jong-Gu Kwak, Seungtae Oh, Hee-Soo Kim, Volker Dangendorf

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*, Volume 944, 11 November 2019, Article 162579*

[**Nuclear Instruments and Methods in Physics Research Section B**](http://www.sciencedirect.com/science/journal/01689002/833/supp/C) **(1)**

[Determination of the neutron energy spectrum of a radial neutron beam at a TRIGA reactor](https://www.sciencedirect.com/science/article/pii/S0168583X19303933)

Sam H. Giegel, Chad L. Pope, Aaron E. Craft

[*Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*](https://www.sciencedirect.com/science/journal/0168583X)*,*

*Volume 454, 1 September 2019, Pages 28-39*

[**Nucleonika**](https://content.sciendo.com/view/journals/nuka/64/3/article-p97.xml) **(1)**

[A portable fast neutron radiography system for non-destructive analysis of composite materials](https://content.sciendo.com/view/journals/nuka/64/3/article-p97.xml)

Kam, Erol; Reyhancan, Iskender A.; Biyik, Recep

*Nukleonika ,* [*Volume 64: Issue 3*](https://content.sciendo.com/view/journals/nuka/64/3/nuka.64.issue-3.xml)

[*https://doi.org/10.2478/nuka-2019-0012*](https://doi.org/10.2478/nuka-2019-0012)*, Published online: 18 Jul 2019*

[**Paleontologia Electronica**](https://palaeo-electronica.org/content/) **(1)**

Dissorophid diversity at the early Permian cave system near Richards Spur, Oklahoma, USA Bryan M. Gee, Joseph J. Bevitt, and Robert R. Reisz

*Palaeontol. Electron, Volume 22, Pages 1-32*

*Article number: 22.2.46,* [*https://doi.org/10.26879/976*](https://doi.org/10.26879/976)

[**PeerJ Paleontology and Evolutionary Science**](https://peerj.com/) **(1)**

[New material of the ‘microsaur’Llistrofus from the cave deposits of Richards Spur, Oklahoma and the paleoecology of the Hapsidopareiidae](https://peerj.com/articles/6327/?utm_source=TrendMD&utm_campaign=PeerJ_TrendMD_0&utm_medium=TrendMD)

Bryan M Gee, Joseph J Bevitt, Ulf Garbe, Robert R Reisz

*PeerJ, Volume 7, Pages e6327*

[**Plant and Soil**](https://www.springer.com/journal/11104) **(1)**

[Increased water retention in the rhizosphere allows for high phosphatase activity in drying soil](https://link.springer.com/article/10.1007/s11104-019-04234-3)
Holz M, Zarebanadkouki M, Carminati A, Hovind J, Kaestner A, Spohn M
*Plant and Soil*. *2019; 443(1-2): 259-271.*[*https://doi.org/10.1007/s11104-019-04234-3*](https://doi.org/10.1007/s11104-019-04234-3)

[**PLOS ONE**](https://journals.plos.org/plosone/) **(1)**

[Implementation and assessment of the black body bias correction in quantitative neutron imaging](http://europepmc.org/backend/ptpmcrender.fcgi?accid=PMC6319815&blobtype=pdf)

Chiara CarminatiI, Pierre Boillat, Florian Schmid, Peter VontobelI, Jan Hovind, Manuel Morgano, Marc Raventos, Muriel Siegwart, David Mannes, Christian Gruenzweig, Pavel Trtik, Eberhard Lehmann, Markus Strobl, Anders Kaestner

*PLOS ONE 14(1): e0210300. https://doi.org/ 10.1371/journal.pone.021030*

[**Powder Technology**](https://www.sciencedirect.com/journal/powder-technology) **(1)**

[Determining the density distribution in cemented carbide powder compacts using 3D neutron imaging](https://www.sciencedirect.com/science/article/pii/S0032591019304760)

Hjalmar Staf, Zoltán Kis, László Szentmiklósi, Bartek Kaplan, Per-Lennart Larsson

[*Powder Technology*](https://www.sciencedirect.com/science/journal/00325910)*, Volume 354, September 2019, Pages 584-590*

[**Proceedings of the Combustion Institute**](https://www.sciencedirect.com/journal/proceedings-of-the-combustion-institute/vol/37/issue/2) **(1)**

[In situ monitoring of hydrogen loss during pyrolysis of wood by neutron imaging](https://www.sciencedirect.com/science/article/pii/S1540748918304693)

Frederik Ossler, Louis J. Santodonato, Jeffrey M. Warren, Charles E. A. Finney, Hassina Z. Bilheux

[*Proceedings of the Combustion Institute*](https://www.sciencedirect.com/science/journal/15407489)*, Volume 37, Issue 2, 2019, Pages 1273-1280*

[**Radiation Physics and Chemistry**](https://www.sciencedirect.com/journal/radiation-physics-and-chemistry/vol/165/suppl/C) **(1)**

[Some considerations about a Soller collimator for neutron imaging](https://www.sciencedirect.com/science/article/pii/S0969806X19301926)

M. Dinca, E. Nazemi, A. Movafeghi, B. Rokrok, M. H. Choopan Dastjerdi

[*Radiation Physics and Chemistry*](https://www.sciencedirect.com/science/journal/0969806X)*, Volume 165, December 2019, Article 108429*

[**Results in Physics**](https://www.sciencedirect.com/journal/results-in-physics/vol/12/suppl/C) **(1)**

# [Flooding and performance of polymer electrolyte fuel cell, investigated by small-angle neutron scattering, neutron radiography and segmented electrode](https://www.sciencedirect.com/science/article/pii/S2211379718325592)

[Satoru Ueda](https://www.sciencedirect.com/science/article/pii/S2211379718325592%22%20%5Cl%20%22%21), [Satoshi Koizumi](https://www.sciencedirect.com/science/article/pii/S2211379718325592#!) & [Yasuyuki Tsutsumi](https://www.sciencedirect.com/science/article/pii/S2211379718325592#!)

[*Results in Physics*](https://www.sciencedirect.com/science/journal/22113797)[*Volume 12*](https://www.sciencedirect.com/science/journal/22113797/12/supp/C)*, March 2019, Pages 504-511*

*https://doi.org/10.1016/j.rinp.2018.11.082*

[**Rev. Sci. Instrum**](https://aip.scitation.org/journal/rsi)**. (5)**

[Improving polarized neutron imaging for visualization of the Meissner effect in superconductors.](https://aip.scitation.org/doi/full/10.1063/1.5053690)

Wang T; Jiang CY; Bilheux HZ; Dhiman I; Bilheux JC; Crow L; McDonald L; Robertson L; Kardjilov N; Pynn R; Tong X

*2019-03-01 Rev Sci Instrum Volume: 90 Issue: 3 Pages: 033705 PMID: 30927791*

[Energy-resolved neutron imaging options at a small angle neutron scattering instrument at the Australian Center for Neutron Scattering](https://aip.scitation.org/doi/10.1063/1.5081909)

T[remsin](https://aip.scitation.org/author/Tremsin%2C%2BA%2BS)*,*[A. V. Sokolova](https://aip.scitation.org/author/Sokolova%2C%2BA%2BV)*,*[F. Salvemini](https://aip.scitation.org/author/Salvemini%2C%2BF)*,*[V. Luzin](https://aip.scitation.org/author/Luzin%2C%2BV)*,*[A. Paradowska](https://aip.scitation.org/author/Paradowska%2C%2BA)*,*[O. Muransky](https://aip.scitation.org/author/Muransky%2C%2BO)*,*[H. J. Kirkwood](https://aip.scitation.org/author/Kirkwood%2C%2BH%2BJ)*,*[B. Abbey](https://aip.scitation.org/author/Abbey%2C%2BB)*,*[C. M. Wensrich](https://aip.scitation.org/author/Wensrich%2C%2BC%2BM)*, and*[E. H. Kisi](https://aip.scitation.org/author/Kisi%2C%2BE%2BH)

*Review of Scientific Instruments****90****, 035114 (2019);*[*https://doi.org/10.1063/1.5081909*](https://doi.org/10.1063/1.5081909)

[Characterization of the phase sensitivity, visibility, and resolution in a symmetric neutron grating interferometer](https://aip.scitation.org/doi/full/10.1063/1.5089588)

[Youngju Kim](https://aip.scitation.org/author/Kim%2C%2BYoungju)*,*[Jongyul Kim](https://aip.scitation.org/author/Kim%2C%2BJongyul)*,*[Daeseung Kim](https://aip.scitation.org/author/Kim%2C%2BDaeseung)*,*[Daniel. S. Hussey](https://aip.scitation.org/author/Hussey%2C%2BDaniel%2BS),[Seung Wook Lee](https://aip.scitation.org/author/Lee%2C%2BSeung%2BWook)

*Review of Scientific Instruments 90, 073704 (2019);*[*https://doi.org/10.1063/1.5089588*](https://doi.org/10.1063/1.5089588)

Distinction between super-cooled water and ice with high duty cycle time-of-flight neutron imaging

Siegwart M, Woracek R, Márquez Damián JI, Tremsin AS, Manzi-Orezzoli V, Strobl M, *et al.*
*Review of Scientific Instruments*. *2019; 90(10): 103705 (15 pp.).*[*https://doi.org/10.1063/1.5110288*](https://doi.org/10.1063/1.5110288)

[Correction approach of detector backlighting in radiography](https://aip.scitation.org/doi/full/10.1063/1.5097170)

[Ala’a M. Al-Falahat](https://aip.scitation.org/author/Al-Falahat%2C%2BAla%27a%2BM)*,*[Andreas Kupsch](https://aip.scitation.org/author/Kupsch%2C%2BAndreas)*,*[Manfred P. Hentschel](https://aip.scitation.org/author/Hentschel%2C%2BManfred%2BP)*,*[Axel Lange](https://aip.scitation.org/author/Lange%2C%2BAxel)*,*[Nikolay Kardjilov](https://aip.scitation.org/author/Kardjilov%2C%2BNikolay)*,*[Henning Markötter](https://aip.scitation.org/author/Mark%C3%B6tter%2C%2BHenning),[Ingo Manke](https://aip.scitation.org/author/Manke%2C%2BIngo)

*Review of Scientific Instruments 90, 125108 (2019);*[*https://doi.org/10.1063/1.5097170*](https://doi.org/10.1063/1.5097170)

[**Scientific Reports**](https://www.nature.com/srep/) **(5)**

[The influence of multi-layered varnishes on moisture protection and vibrational properties of violin wood](https://www.nature.com/articles/s41598-019-54991-5)
Lämmlein SL, Mannes D, Van Damme B, Schwarze FWMR, Burgert I
*Scientific Reports*. *2019; 9(1): 18611 (9 pp.).*[*https://doi.org/10.1038/s41598-019-54991-5*](https://doi.org/10.1038/s41598-019-54991-5)

[Neutron imaging and modelling inclined vortex driven thin films](https://www.nature.com/articles/s41598-019-39307-x)

[Timothy E. Solheim](https://www.nature.com/articles/s41598-019-39307-x#auth-1), [Filomena Salvemini](https://www.nature.com/articles/s41598-019-39307-x#auth-2), [Stuart B. Dalziel](https://www.nature.com/articles/s41598-019-39307-x#auth-3) & [Colin L. Raston](https://www.nature.com/articles/s41598-019-39307-x#auth-4)

[*Scientific Reports*](https://www.nature.com/srep)*volume 9, Article number: 2817 (2019)*

[Achromatic Non-Interferometric Single Grating Neutron Dark-Field Imaging](file:///C%3A%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5CNew%20database%5CAchromatic%20Non-Interferometric%20Single%20Grating%20Neutron%20Dark-Field%20Imaging)

[M. Strobl](https://www.nature.com/articles/s41598-019-55558-0#auth-1), [J. Valsecchi](https://www.nature.com/articles/s41598-019-55558-0#auth-2), [R. P. Harti](https://www.nature.com/articles/s41598-019-55558-0#auth-3), [P. Trtik](https://www.nature.com/articles/s41598-019-55558-0#auth-4), [A. Kaestner](https://www.nature.com/articles/s41598-019-55558-0#auth-5), [C. Gruenzweig](https://www.nature.com/articles/s41598-019-55558-0#auth-6), [E. Polatidis](https://www.nature.com/articles/s41598-019-55558-0#auth-7),

[J. Capek](https://www.nature.com/articles/s41598-019-55558-0#auth-8)

[*Scientific Reports*](https://www.nature.com/srep)*volume 9, Article number: 19649 (2019)*

[Symmetric Talbot-Lau neutron grating interferometry and incoherent scattering correction for quantitative dark-field imaging](https://www.nature.com/articles/s41598-019-55420-3#rightslink)

Youngju Kim, Jacopo Valsecchi, Jongyul Kim, Seung Wook Lee, Markus Strobl

[*Scientific Reports*](https://www.nature.com/srep) *volume 9, Article number: 18973 (2019)*

[Root water uptake and its pathways across the root: quantification at the cellular scale](https://www.nature.com/articles/s41598-019-49528-9)
Zarebanadkouki M, Trtik P, Hayat F, Carminati A, Kaestner A
*Scientific Reports*. *2019; 9(1): 12979 (11 pp.).*[*https://doi.org/10.1038/s41598-019-49528-9*](https://doi.org/10.1038/s41598-019-49528-9)

[**Scriptia Materialia**](https://www.sciencedirect.com/journal/scripta-materialia/vol/158/suppl/C) **(1)**

[Multi-scale analyses of constituent phases in a trip-assisted duplex stainless steel by electron backscatter diffraction, in situ neutron diffraction, and energy selective neutron imaging](https://www.sciencedirect.com/science/article/pii/S1359646218305268)

Wanchuck Woo, Jongyul Kim, Eun-Young Kim, Shi-Hoon Choi, Daniel S. Hussey

[*Scripta Materialia*](https://www.sciencedirect.com/science/journal/13596462)*, Volume 158, 1 January 2019, Pages 105-109*

[**SoftwareX**](https://www.sciencedirect.com/journal/softwarex/vol/10/suppl/C) **(1)**

[KipTool, a general purpose processing tool for neutron imaging data](https://www.sciencedirect.com/science/article/pii/S2352711019300718)

Chiara Carminati, Markus Strobl, Anders Kaestner

[*SoftwareX*](https://www.sciencedirect.com/science/journal/23527110)*, Volume 10, July–December 2019, Article 100279*

[**Swiss Neutron News**](https://sgn.web.psi.ch/sgn/snn.html) **(1)**

[Advances in the high spatial resolution neutron imaging at the Paul Scherrer Institut](https://sgn.web.psi.ch/sgn/snn/snn_54.pdf)
Trtik P, Lehmann EH, Strobl M, Meyer M, Wehmann T
*Swiss Neutron News*. *https://sgn.web.psi.ch/sgn/snn.html. Published 2019*

[**Vadose Zone Journal**](https://acsess.onlinelibrary.wiley.com/toc/15391663/2019/18/1) **(3)**

[Microhydrological niches in soils: how mucilage and EPS alter the biophysical properties of the rhizosphere and other biological hotspots](https://acsess.onlinelibrary.wiley.com/doi/full/10.2136/vzj2018.12.0211)

[Pascal Benard](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Benard%2C+Pascal) , [Mohsen Zarebanadkouki](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Zarebanadkouki%2C+Mohsen), [Mathilde Brax](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Brax%2C+Mathilde), [Robin Kaltenbach](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kaltenbach%2C+Robin), [Iwan Jerjen](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Jerjen%2C+Iwan),

[Federica Marone](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Marone%2C+Federica), [Estelle Couradeau](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Couradeau%2C+Estelle), [Vincent J.M.N.L. Felde](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Felde%2C+Vincent+JMNL), [Anders Kaestner](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kaestner%2C+Anders) , [Andrea Carminati](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Carminati%2C+Andrea)

*Vadose Zone Journal*. *2019; 18(1): 180211 (10 pp.).*[*https://doi.org/10.2136/vzj2018.12.0211*](https://doi.org/10.2136/vzj2018.12.0211)

[Combination of Magnetic Resonance Imaging and Neutron Computed Tomography for Three‐Dimensional Rhizosphere Imaging](https://acsess.onlinelibrary.wiley.com/doi/full/10.2136/vzj2018.09.0166)

[S. Haber-Pohlmeier](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Haber-Pohlmeier%2C+S), [C. Tötzke](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=T%C3%B6tzke%2C+C) , [E. Lehmann](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Lehmann%2C+E), [N. Kardjilov](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kardjilov%2C+N), [A. Pohlmeier](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Pohlmeier%2C+A) , [S.E. Oswald](https://acsess.onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Oswald%2C+SE)

*Vadose Zone Journal, 11 April 2019* [*https://doi.org/10.2136/vzj2018.09.0166*](https://doi.org/10.2136/vzj2018.09.0166)

[Impact of infiltration rate on residual air distribution and hydraulic conductivity](https://acsess.onlinelibrary.wiley.com/doi/full/10.2136/vzj2019.01.0003)
Sacha J, Snehota M, Trtik P, Hovind J
*Vadose Zone Journal*. *2019; 18(1): 190003 (15 pp.).*[*https://doi.org/10.2136/vzj2019.01.0003*](https://doi.org/10.2136/vzj2019.01.0003)

**2018**

Total number of papers listed: 54

[**Acta Polytechnica**](https://ojs.cvut.cz/ojs/index.php/ap/index) **(1)**

[H2 permeation behaviour of Cr2AlC and Ti2AlC max phase coated Zircaloy-4 by neutron radiography](https://ojs.cvut.cz/ojs/index.php/ap/article/view/4576)

Chongchong Tang, Mirco Karl Grosse, Pavel Trtik, Martin Steinbrück, Michael Stüber, Hans Jürgen Seifert

*Acta Polytechnica*

*DOI: 10.14311/AP.2018.58.0069 ISSN: 1210-2709 Volume: 58 Issue: 1 Pages: 69-76*

*2018-02-01*

[**American Journal of Physical Anthropology**](https://ojs.cvut.cz/ojs/index.php/ap/index) **(1)**

[Neutron-based computed microtomography: *Pliobates cataloniae* and *Barberapithecus huerzeleri* as a test‐case study](https://onlinelibrary.wiley.com/doi/10.1002/ajpa.23467)

[Alessandro Urciuoli](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Urciuoli%2C+Alessandro), [Clément Zanolli](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Zanolli%2C+Cl%C3%A9ment), [Josep Fortuny](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Fortuny%2C+Josep), [Sergio Almécija](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Alm%C3%A9cija%2C+Sergio), [Burkhard Schillinger](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Schillinger%2C+Burkhard), [Salvador Moyà‐Solà](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Moy%C3%A0-Sol%C3%A0%2C+Salvador), [David M. Alba](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Alba%2C+David+M)

[*American Journal of Physical Anthropology*](https://onlinelibrary.wiley.com/journal/10968644), *First published: 25 March 2018*

[**Angewandte Chemie**](https://onlinelibrary.wiley.com/toc/15213773/0/0) **(1)**

Egyptian Grave Goods of Kha and Merit Studied by Neutron and Gamma Techniques

[Dr. Giulia Festa](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Festa%2C+Giulia) [Dr. Triestino Minniti](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Minniti%2C+Triestino) [Dr. Laura Arcidiacono](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Arcidiacono%2C+Laura) [Dr. Matilde Borla](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Borla%2C+Matilde) [Dr. Daniela Di Martino](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Di+Martino%2C+Daniela) [Dr. Federica Facchetti](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Facchetti%2C+Federica) [Dr. Enrico Ferraris](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Ferraris%2C+Enrico) [Dr. Valentina Turina](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Turina%2C+Valentina) [Dr. Winfried Kockelmann](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kockelmann%2C+Winfried) [Dr. Joe Kelleher](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kelleher%2C+Joe) [Prof. Roberto Senesi](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Senesi%2C+Roberto) [Dr. Christian Greco](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Greco%2C+Christian) [Prof. Carla Andreani](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Andreani%2C+Carla)

*Angewandte Chemie*

*First published: 26 March 2018* [*https://doi.org/10.1002/anie.201713043*](https://doi.org/10.1002/anie.201713043)

[**Cement and Concrete Research**](https://www.sciencedirect.com/journal/cement-and-concrete-research) **(1)**

[Application of neutron imaging to investigate fundamental aspects of durability of cement-based materials: A review](https://www.sciencedirect.com/science/article/abs/pii/S0008884617307573)

[Peng Zhang, Folker H.Wittmann, Pietro Lura, Harald S.Müller, Songbai Han, Tiejun Zhao](https://www.sciencedirect.com/science/article/abs/pii/S0008884617307573#!)

[*Cement and Concrete Research*](https://www.sciencedirect.com/science/journal/00088846)*,* [*Volume 108*](https://www.sciencedirect.com/science/journal/00088846/108/supp/C)*, June 2018, Pages 152-166*

[*https://doi.org/10.1016/j.cemconres.2018.03.003*](https://doi.org/10.1016/j.cemconres.2018.03.003)

[**Encyclopedia of Analytical Chemistry**](https://onlinelibrary.wiley.com/doi/book/10.1002/9780470027318) **(1)**

[Neutron Diffraction and Neutron Imaging with Compact Neutron Source](https://onlinelibrary.wiley.com/doi/10.1002/9780470027318.a9509)

[Yoshie Otake](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Otake%2C+Yoshie)

[*Encyclopedia of Analytical Chemistry*](https://onlinelibrary.wiley.com/doi/book/10.1002/9780470027318), *First published: 13 March 2018*

[**EPJ Web of Conferences**](https://www.epj-conferences.org/) **(1)**

Performance assessment of imaging plates for the JHR transfer Neutron Imaging System

E. Simon and P. Guimbal

*EPJ Web of Conferences* ***170****, 04021 (2018)*[*https://doi.org/10.1051/epjconf/201817004021*](https://doi.org/10.1051/epjconf/201817004021)

[**Journal of Applied Crystallography**](https://journals.iucr.org/j/) **(2)**

[A Monte Carlo approach for scattering correction towards quantitative neutron imaging of polycrystals](https://onlinelibrary.wiley.com/doi/10.1107/S1600576718001607)

[M. Raventós](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Ravent%C3%B3s%2C+M) [E. H. Lehmann](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Lehmann%2C+E+H) [M. Boin](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Boin%2C+M) [M. Morgano](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Morgano%2C+M) [J. Hovind](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Hovind%2C+J) [R. Harti](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Harti%2C+R) [J. Valsecchi](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Valsecchi%2C+J) [A. Kaestner](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kaestner%2C+A) [C. Carminati](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Carminati%2C+C) [P. Boillat](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Boillat%2C+P) [P. Trtik](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Trtik%2C+P) [F. Schmid](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Schmid%2C+F) [M. Siegwart](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Siegwart%2C+M) [D. Mannes](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Mannes%2C+D) [M. Strobl](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Strobl%2C+M)

[C. Grünzweig](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Gr%C3%BCnzweig%2C+C)

[*Journal of Applied Crystallography*](https://onlinelibrary.wiley.com/journal/s16005767)[*Volume 51, Issue 2*](https://onlinelibrary.wiley.com/toc/s16005767/51/2) *First published: 01 March 2018*

[Inverse pole figure mapping of bulk crystalline grains in a polycrystalline steel plate by pulsed neutron Bragg‐dip transmission imaging](https://onlinelibrary.wiley.com/doi/10.1107/S1600576717012900)

[Hirotaka Sato](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Sato%2C+Hirotaka) [Yoshinori Shiota](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Shiota%2C+Yoshinori) [Satoshi Morooka](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Morooka%2C+Satoshi) [Yoshikazu Todaka](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Todaka%2C+Yoshikazu) [Nozomu Adachi](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Adachi%2C+Nozomu) [Sunao Sadamatsu](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Sadamatsu%2C+Sunao) [Kenichi Oikawa](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Oikawa%2C+Kenichi) [Masahide Harada](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Harada%2C+Masahide) [Shuoyuan Zhang](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Zhang%2C+Shuoyuan)

[Yuhua Su](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Su%2C+Yuhua) [Takashi Kamiyama](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kamiyama%2C+Takashi) [Masato Ohnuma](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Ohnuma%2C+Masato) [Michihiro Furusaka](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Furusaka%2C+Michihiro) [Takenao Shinohara](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Shinohara%2C+Takenao) [Yoshiaki Kiyanagi](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Kiyanagi%2C+Yoshiaki)

[*Journal of Applied Crystallography*](https://onlinelibrary.wiley.com/journal/s16005767)[*Volume 50, Issue 6*](https://onlinelibrary.wiley.com/toc/s16005767/50/6)

[**Journal of Applied Physics**](https://aip.scitation.org/journal/jap) **(1)**

[Applying neutron transmission physics and 3D statistical full-field model to understand 2D Bragg-edge imaging](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=02db060b-a6bf-4b97-82ac-c168da301b02&type=RESULT&collectionCode=WWS-SCITECH&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttps%253A%252F%252Fwww.osti.gov%252Fbiblio%252F1429192-applying-neutron-transmission-physics-statistical-full-field-model-understand-bragg-edge-imaging%26collectionCode%3DWWS-SCITECH%26searchId%3D02db060b-a6bf-4b97-82ac-c168da301b02%26type%3DRESULT%26signature%3Dd5da29c8cbfe039c65559ca48f09c55c070d268b50fa945cfb1f56be032126e8)

Qingge Xie, Gian Song, Sarma B Gorti, Alexandru Dan Stoica, Balasubramaniam Radhakrishnan, Jean-Christophe Bilheux, Michael M Kirka, Ryan R Dehoff, Hassina Z Bilheux & Ke An

[*Search OSTI.GOV for author "An, Ke"*](https://www.osti.gov/search/author%3A%22An%2C%20Ke%22)

[*Search OSTI.GOV for ORCID "000000026093429X"*](https://www.osti.gov/search/orcid%3A000000026093429X)

[*Search orcid.org for ORCID "000000026093429X"*](https://orcid.org/orcid-search/quick-search?searchQuery=0000-0002-6093-429X)

*Journal of Applied Physics DOI: 10.1063/1.5013676 2018-02-21*

[**Journal of Archaeological Science: Reports**](https://www.sciencedirect.com/journal/journal-of-archaeological-science-reports) **(4)**

[Using neutron imaging data for deeper understanding of cultural heritage objects experiences from 15+ years of collaborations](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18300142)

[Eberhard H.Lehmann](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18300142#!)

[*Journal of Archaeological Science: Reports*](https://www.sciencedirect.com/science/journal/2352409X)*,* [*Volume 19*](https://www.sciencedirect.com/science/journal/2352409X/19/supp/C)*, June 2018, Pages 397-404*

[*https://doi.org/10.1016/j.jasrep.2018.02.046*](https://doi.org/10.1016/j.jasrep.2018.02.046)

[Neutron imaging as tool for investigations on historical musical instruments](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18301457)

[Eberhard H.Lehmann, Sarah Lämmlein, David Mannes](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18301457#!)

[*Journal of Archaeological Science: Reports*](https://www.sciencedirect.com/science/journal/2352409X)*,* [*Volume 20*](https://www.sciencedirect.com/science/journal/2352409X/20/supp/C)*, August 2018, Pages 239-243*

[*https://doi.org/10.1016/j.jasrep.2018.05.004*](https://doi.org/10.1016/j.jasrep.2018.05.004)

[FISH: A thermal neutron imaging station at HOR Delft](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18301329)

[Zhou Zhou , Jeroen Plomp, Lambert van Eijck , Peter Vontobel, Ralph P.Harti, Eberhard Lehmann, Catherine Pappas](https://www.sciencedirect.com/science/article/abs/pii/S2352409X18301329#!)

[*Journal of Archaeological Science: Reports*](https://www.sciencedirect.com/science/journal/2352409X)*,* [*Volume 20*](https://www.sciencedirect.com/science/journal/2352409X/20/supp/C)*, August 2018, Pages 369-373*

[*https://doi.org/10.1016/j.jasrep.2018.05.015*](https://doi.org/10.1016/j.jasrep.2018.05.015)

[Integration of neutron-based elemental analysis and imaging methods and applications to cultural heritage research](https://www.sciencedirect.com/science/article/abs/pii/S2352409X1830124X)

[László Szentmiklósi](https://www.sciencedirect.com/science/article/abs/pii/S2352409X1830124X#!), [Boglárka Maróti](https://www.sciencedirect.com/science/article/abs/pii/S2352409X1830124X#!), [Zoltán Kis](https://www.sciencedirect.com/science/article/abs/pii/S2352409X1830124X#!), [Zsolt Kasztovszk](https://www.sciencedirect.com/science/article/abs/pii/S2352409X1830124X#!)y

[*Journal of Archaeological Science: Reports*](https://www.sciencedirect.com/science/journal/2352409X)*,* [*Volume 20*](https://www.sciencedirect.com/science/journal/2352409X/20/supp/C)*, August 2018, Pages 476-482*

[*https://doi.org/10.1016/j.jasrep.2018.06.001*](https://doi.org/10.1016/j.jasrep.2018.06.001)

[**Journal of the European Ceramic Society**](https://www.sciencedirect.com/journal/journal-of-the-european-ceramic-society) **(1)**

[Space-resolved study of binder burnout process in dry pressed ZnO ceramics by neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0955221918305120)

[Lise Donzel, David Mannes, Michael Hagemeister, Eberhard Lehmann, Jan Hovind, Nikolay Kardjilov, Christian Grünzweig](https://www.sciencedirect.com/science/article/abs/pii/S0955221918305120#!)

[*Journal of the European Ceramic Society*](https://www.sciencedirect.com/science/journal/09552219)*,* [*Volume 38, Issue 16*](https://www.sciencedirect.com/science/journal/09552219/38/16)*, December 2018, Pages 5448-5453*

[*https://doi.org/10.1016/j.jeurceramsoc.2018.08.017*](https://doi.org/10.1016/j.jeurceramsoc.2018.08.017)

[**Journal of Imaging**](http://www.mdpi.com/journal/jimaging) **(19)**

[GPU Accelerated Image Processing in CCD-Based Neutron Imaging](https://www.mdpi.com/2313-433X/4/9/104)

by [Jonathan Schock](https://sciprofiles.com/profile/459275) ,[Schulz Michael](https://sciprofiles.com/profile/author/eElxZ3FiZi91QUFONGFRRzc3c3U2VTM0aGFKYjZ4eCs3MUIvN2hIcU16RT0%3D) and [Franz Pfeiffer](https://sciprofiles.com/profile/author/V1dHalNoZDJhSklOQ0o4bysyZkIzblBYWm1FUFFaR2tzZnRCNHd5UHJQaz0%3D)

J. Imaging *2018*, 4*(9), 104;*[*https://doi.org/10.3390/jimaging4090104*](https://doi.org/10.3390/jimaging4090104)*- 21 Aug 2018*

[Investigation of a Monturaqui Impactite by Means of Bi-Modal X-ray and Neutron Tomography](https://www.mdpi.com/2313-433X/4/5/72)

[Anna Fedrigo](https://sciprofiles.com/profile/336792) ,[Kasper Marstal](https://sciprofiles.com/profile/author/c2ROeHFaV3FMQjBLVVhmWmVBSUpGQT09) ,[Christian Bender Koch](https://sciprofiles.com/profile/author/SFpWWVlURzFjdjFaSWxZRVpsVmdhQT09) ,[Vedrana Andersen Dahl](https://sciprofiles.com/profile/356419) ,[Anders Bjorholm Dahl](https://sciprofiles.com/profile/838924) ,[Mark Lyksborg](https://sciprofiles.com/profile/author/ZGRSSjBEM1VDV3hROW1BWEZKL3l4UVVhRS92T2thYXdpeXpsYUE3NjhOMD0%3D) ,[Carsten Gundlach](https://sciprofiles.com/profile/author/WGNyWEJUd1o5TGJuWXNQZ2JoSmVLMDk2SEwzSjgxL055VktYazBMeklVZz0%3D) ,[Frédéric Ott](https://sciprofiles.com/profile/author/UjZGVDI3WXpkbmpwTWxYQWtvSHJQeE05MmVNeENtTU5QVkpWYTFkLzBsZz0%3D) and [Markus Strobl](https://sciprofiles.com/profile/340087)

J. Imaging *2018*, 4(*5), 72;*[*https://doi.org/10.3390/jimaging4050072*](https://doi.org/10.3390/jimaging4050072)*- 18 May 2018*

[Neutron Imaging at Compact Accelerator-Driven Neutron Sources in Japan](http://www.mdpi.com/2313-433X/4/4/55)

[Yoshiaki Kiyanagi](http://www.mdpi.com/search?authors=Yoshiaki%20Kiyanagi&orcid=)

J. Imaging *2018*, 4(*4), 55; doi:*[*10.3390/jimaging4040055*](https://doi.org/10.3390/jimaging4040055)

*Received: 8 November 2017 / Revised: 28 February 2018 / Accepted: 22 March 2018 / Published: 27 March 2018*

[Energy-Resolved Neutron Imaging for Reconstruction of Strain Introduced by Cold Working](http://www.mdpi.com/2313-433X/4/3/48)

[Anton S. Tremsin](http://www.mdpi.com/search?authors=Anton%20S.%20Tremsin&orcid=0000-0003-2443-7576),[Winfried Kockelmann](http://www.mdpi.com/search?authors=Winfried%20Kockelmann&orcid=),[Joe F. Kelleher](http://www.mdpi.com/search?authors=Joe%20F.%20Kelleher&orcid=),[Anna M. Paradowska](http://www.mdpi.com/search?authors=Anna%20M.%20Paradowska&orcid=),[Ranggi S. Ramadhan](http://www.mdpi.com/search?authors=Ranggi%20S.%20Ramadhan&orcid=) and [Michael E. Fitzpatrick](http://www.mdpi.com/search?authors=Michael%20E.%20Fitzpatrick&orcid=0000-0002-3618-6594)

J. Imaging *2018*, 4(3), *48; doi:*[*10.3390/jimaging4030048*](https://doi.org/10.3390/jimaging4030048)

*Received: 9 December 2017 / Revised: 22 February 2018 / Accepted: 23 February 2018 / Published: 28 February 2018*

[Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science](http://www.mdpi.com/2313-433X/4/3/47)

[Winfried Kockelmann](http://www.mdpi.com/search?authors=Winfried%20Kockelmann&orcid=),[Triestino Minniti](http://www.mdpi.com/search?authors=Triestino%20Minniti&orcid=0000-0002-9416-4510),[Daniel E. Pooley](http://www.mdpi.com/search?authors=Daniel%20E.%20Pooley&orcid=),[Genoveva Burca](http://www.mdpi.com/search?authors=Genoveva%20Burca&orcid=),[Ranggi Ramadhan](http://www.mdpi.com/search?authors=Ranggi%20Ramadhan&orcid=),[Freddie A. Akeroyd](http://www.mdpi.com/search?authors=Freddie%20A.%20Akeroyd&orcid=),[Gareth D. Howells](http://www.mdpi.com/search?authors=Gareth%20D.%20Howells&orcid=),[Chris Moreton-Smith](http://www.mdpi.com/search?authors=Chris%20Moreton-Smith&orcid=),[David P. Keymer](http://www.mdpi.com/search?authors=David%20P.%20Keymer&orcid=),[Joe Kelleher](http://www.mdpi.com/search?authors=Joe%20Kelleher&orcid=),[Saurabh Kabra](http://www.mdpi.com/search?authors=Saurabh%20Kabra&orcid=),[Tung Lik Lee](http://www.mdpi.com/search?authors=Tung%20Lik%20Lee&orcid=0000-0002-2431-5723),[Ralf Ziesche](http://www.mdpi.com/search?authors=Ralf%20Ziesche&orcid=),[Anthony Reid](http://www.mdpi.com/search?authors=Anthony%20Reid&orcid=),[Giuseppe Vitucci](http://www.mdpi.com/search?authors=Giuseppe%20Vitucci&orcid=0000-0002-8535-8364),[Giuseppe Gorini](http://www.mdpi.com/search?authors=Giuseppe%20Gorini&orcid=0000-0002-4673-0901),[Davide Micieli](http://www.mdpi.com/search?authors=Davide%20Micieli&orcid=0000-0003-4861-0273),[Raffaele G. Agostino](http://www.mdpi.com/search?authors=Raffaele%20G.%20Agostino&orcid=),[Vincenzo Formoso](http://www.mdpi.com/search?authors=Vincenzo%20Formoso&orcid=0000-0003-4887-4893),[Francesco Aliotta](http://www.mdpi.com/search?authors=Francesco%20Aliotta&orcid=),[Rosa Ponterio](http://www.mdpi.com/search?authors=Rosa%20Ponterio&orcid=),[Sebastiano Trusso](http://www.mdpi.com/search?authors=Sebastiano%20Trusso&orcid=0000-0001-6621-6355),[Gabriele Salvato](http://www.mdpi.com/search?authors=Gabriele%20Salvato&orcid=),[Cirino Vasi](http://www.mdpi.com/search?authors=Cirino%20Vasi&orcid=),[Francesco Grazzi](http://www.mdpi.com/search?authors=Francesco%20Grazzi&orcid=),[Kenichi Watanabe](http://www.mdpi.com/search?authors=Kenichi%20Watanabe&orcid=),[Jason W. L. Lee](http://www.mdpi.com/search?authors=Jason%20W.%20L.%20Lee&orcid=),[Anton S. Tremsin](http://www.mdpi.com/search?authors=Anton%20S.%20Tremsin&orcid=0000-0003-2443-7576),[Jason B. McPhate](http://www.mdpi.com/search?authors=Jason%20B.%20McPhate&orcid=),[Daniel Nixon](http://www.mdpi.com/search?authors=Daniel%20Nixon&orcid=),[Nick Draper](http://www.mdpi.com/search?authors=Nick%20Draper&orcid=),[William Halcrow](http://www.mdpi.com/search?authors=William%20Halcrow&orcid=) and[J im Nightingale](http://www.mdpi.com/search?authors=Jim%20Nightingale&orcid=)

J. Imaging *2018*, 4(*3), 47; doi:*[*10.3390/jimaging4030047*](https://doi.org/10.3390/jimaging4030047)

*Received: 11 January 2018 / Revised: 6 February 2018 / Accepted: 23 February 2018 / Published: 28 February 2018*

[Demonstration of Focusing Wolter Mirrors for Neutron Phase and Magnetic Imaging](http://www.mdpi.com/2313-433X/4/3/50)

[Daniel S. Hussey](http://www.mdpi.com/search?authors=Daniel%20S.%20Hussey&orcid=),[Han Wen](http://www.mdpi.com/search?authors=Han%20Wen&orcid=),[Huarui Wu](http://www.mdpi.com/search?authors=Huarui%20Wu&orcid=0000-0002-1161-3975),[Thomas R. Gentile](http://www.mdpi.com/search?authors=Thomas%20R.%20Gentile&orcid=),[Wangchun Chen](http://www.mdpi.com/search?authors=Wangchun%20Chen&orcid=),[David L. Jacobson](http://www.mdpi.com/search?authors=David%20L.%20Jacobson&orcid=),[Jacob M. LaManna](http://www.mdpi.com/search?authors=Jacob%20M.%20LaManna&orcid=0000-0002-7105-022X) and [Boris Khaykovich](http://www.mdpi.com/search?authors=Boris%20Khaykovich&orcid=0000-0002-9490-2771)

J. Imaging *2018*, 4(*3), 50; doi:*[*10.3390/jimaging4030050*](https://doi.org/10.3390/jimaging4030050)

*Received: 1 November 2017 / Revised: 1 March 2018 / Accepted: 2 March 2018 / Published: 6 March 2018*

[Studies of Ancient Russian Cultural Objects Using the Neutron Tomography Method](http://www.mdpi.com/2313-433X/4/2/25)

[Sergey Kichanov](http://www.mdpi.com/search?authors=Sergey%20Kichanov&orcid=),[Irina Saprykina](http://www.mdpi.com/search?authors=Irina%20Saprykina&orcid=),[Denis Kozlenko](http://www.mdpi.com/search?authors=Denis%20Kozlenko&orcid=),[Kuanysh Nazarov](http://www.mdpi.com/search?authors=Kuanysh%20Nazarov&orcid=),[Evgenii Lukin](http://www.mdpi.com/search?authors=Evgenii%20Lukin&orcid=),[Anton Rutkauskas](http://www.mdpi.com/search?authors=Anton%20Rutkauskas&orcid=) and [Boris Savenko](http://www.mdpi.com/search?authors=Boris%20Savenko&orcid=)

J. Imaging *2018*, 4(*2), 25; doi:*[*10.3390/jimaging4020025*](https://doi.org/10.3390/jimaging4020025)

*Received: 27 October 2017 / Revised: 18 January 2018 / Accepted: 19 January 2018 / Published: 23 January 2018*

[Event Centroiding Applied to Energy-Resolved Neutron Imaging at LANSCE](http://www.mdpi.com/2313-433X/4/2/40)

[Nicholas P. Borges](http://www.mdpi.com/search?authors=Nicholas%20P.%20Borges&orcid=),[Adrian S. Losko](http://www.mdpi.com/search?authors=Adrian%20S.%20Losko&orcid=0000-0001-5307-356X) and [Sven C. Vogel](http://www.mdpi.com/search?authors=Sven%20C.%20Vogel&orcid=0000-0003-2049-0361)

J. Imaging *2018*, 4(*2), 40; doi:*[*10.3390/jimaging4020040*](https://doi.org/10.3390/jimaging4020040)

*Received: 6 December 2017 / Revised: 9 February 2018 / Accepted: 11 February 2018 / Published: 13 February 2018*

[Neutron Imaging at LANSCE—From Cold to Ultrafast](http://www.mdpi.com/2313-433X/4/2/45)

[Ronald O. Nelson](http://www.mdpi.com/search?authors=Ronald%20O.%20Nelson&orcid=),[Sven C. Vogel](http://www.mdpi.com/search?authors=Sven%20C.%20Vogel&orcid=0000-0003-2049-0361),[James F. Hunter](http://www.mdpi.com/search?authors=James%20F.%20Hunter&orcid=),[Erik B. Watkins](http://www.mdpi.com/search?authors=Erik%20B.%20Watkins&orcid=),[Adrian S. Losko](http://www.mdpi.com/search?authors=Adrian%20S.%20Losko&orcid=),[Anton S. Tremsin](http://www.mdpi.com/search?authors=Anton%20S.%20Tremsin&orcid=0000-0003-2443-7576),[Nicholas P. Borges](http://www.mdpi.com/search?authors=Nicholas%20P.%20Borges&orcid=),[Theresa E. Cutler](http://www.mdpi.com/search?authors=Theresa%20E.%20Cutler&orcid=),[Lee T. Dickman](http://www.mdpi.com/search?authors=Lee%20T.%20Dickman&orcid=0000-0003-3876-7058),[Michelle A. Espy](http://www.mdpi.com/search?authors=Michelle%20A.%20Espy&orcid=),[Donald Cort Gautier](http://www.mdpi.com/search?authors=Donald%20Cort%20Gautier&orcid=),[Amanda C. Madden](http://www.mdpi.com/search?authors=Amanda%20C.%20Madden&orcid=),[Jaroslaw Majewski](http://www.mdpi.com/search?authors=Jaroslaw%20Majewski&orcid=),[Michael W. Malone](http://www.mdpi.com/search?authors=Michael%20W.%20Malone&orcid=),[Douglas R. Mayo](http://www.mdpi.com/search?authors=Douglas%20R.%20Mayo&orcid=),[Kenneth J. McClellan](http://www.mdpi.com/search?authors=Kenneth%20J.%20McClellan&orcid=),[David S. Montgomery](http://www.mdpi.com/search?authors=David%20S.%20Montgomery&orcid=),[Shea M. Mosby](http://www.mdpi.com/search?authors=Shea%20M.%20Mosby&orcid=),[Andrew T. Nelson](http://www.mdpi.com/search?authors=Andrew%20T.%20Nelson&orcid=0000-0002-4071-3502),[Kyle J. Ramos](http://www.mdpi.com/search?authors=Kyle%20J.%20Ramos&orcid=),[Richard C. Schirato](http://www.mdpi.com/search?authors=Richard%20C.%20Schirato&orcid=),[Katlin Schroeder](http://www.mdpi.com/search?authors=Katlin%20Schroeder&orcid=),[Sanna A. Sevanto](http://www.mdpi.com/search?authors=Sanna%20A.%20Sevanto&orcid=),[Alicia L. Swift](http://www.mdpi.com/search?authors=Alicia%20L.%20Swift&orcid=),[Long K. Vo](http://www.mdpi.com/search?authors=Long%20K.%20Vo&orcid=),[Thomas E. Williamson](http://www.mdpi.com/search?authors=Thomas%20E.%20Williamson&orcid=) and [Nicola M. Winch](http://www.mdpi.com/search?authors=Nicola%20M.%20Winch&orcid=)

J. Imaging *2018*, 4(*2), 45; doi:*[*10.3390/jimaging4020045*](https://doi.org/10.3390/jimaging4020045)

*Received: 5 December 2017 / Revised: 9 February 2018 / Accepted: 9 February 2018 / Published: 23 February 2018*

[In-Situ Imaging of Liquid Phase Separation in Molten Alloys Using Cold Neutrons](http://www.mdpi.com/2313-433X/4/1/5)

[Nicholas Alexander Derimow](http://www.mdpi.com/search?authors=Nicholas%20Alexander%20Derimow&orcid=),[Louis Joseph Santodonato](http://www.mdpi.com/search?authors=Louis%20Joseph%20Santodonato&orcid=),[Rebecca Mills](http://www.mdpi.com/search?authors=Rebecca%20Mills&orcid=) and [Reza Abbaschian](http://www.mdpi.com/search?authors=Reza%20Abbaschian&orcid=)

J. Imaging *2018*, 4(*1), 5; doi:*[*10.3390/jimaging4010005*](https://doi.org/10.3390/jimaging4010005)

*Received: 31 October 2017 / Revised: 7 December 2017 / Accepted: 7 December 2017 / Published: 25 December 2017*

[Neutron Imaging with Timepix Coupled Lithium Indium Diselenide](http://www.mdpi.com/2313-433X/4/1/10)

[Elan Herrera](http://www.mdpi.com/search?authors=Elan%20Herrera&orcid=),[Daniel Hamm](http://www.mdpi.com/search?authors=Daniel%20Hamm&orcid=),[Ashley Stowe](http://www.mdpi.com/search?authors=Ashley%20Stowe&orcid=),[Jeffrey Preston](http://www.mdpi.com/search?authors=Jeffrey%20Preston&orcid=),[Brenden Wiggins](http://www.mdpi.com/search?authors=Brenden%20Wiggins&orcid=),[Arnold Burger](http://www.mdpi.com/search?authors=Arnold%20Burger&orcid=) and [Eric Lukosi](http://www.mdpi.com/search?authors=Eric%20Lukosi&orcid=)

J. Imaging *2018*, 4(*1), 10; doi:*[*10.3390/jimaging4010010*](https://doi.org/10.3390/jimaging4010010)

*Received: 31 October 2017 / Revised: 12 December 2017 / Accepted: 14 December 2017 / Published: 29 December*

[Deriving Quantitative Crystallographic Information from the Wavelength-Resolved Neutron Transmission Analysis Performed in Imaging Mode](http://www.mdpi.com/2313-433X/4/1/7)

[Hirotaka Sato](http://www.mdpi.com/search?authors=Hirotaka%20Sato&orcid=0000-0002-1968-7688)

J. Imaging *2018*, 4(*1), 7; doi:*[*10.3390/jimaging4010007*](https://doi.org/10.3390/jimaging4010007)

*Received: 25 November 2017 / Revised: 18 December 2017 / Accepted: 20 December 2017 / Published: 28 December 2017*

[Neutron Imaging in Cultural Heritage Research at the FRM II Reactor of the Heinz Maier-Leibnitz Center](http://www.mdpi.com/2313-433X/4/1/22)

[Burkhard Schillinger](http://www.mdpi.com/search?authors=Burkhard%20Schillinger&orcid=),[Amélie Beaudet](http://www.mdpi.com/search?authors=Am%C3%A9lie%20Beaudet&orcid=),[Anna Fedrigo](http://www.mdpi.com/search?authors=Anna%20Fedrigo&orcid=),[Francesco Grazzi](http://www.mdpi.com/search?authors=Francesco%20Grazzi&orcid=),[Ottmar Kullmer](http://www.mdpi.com/search?authors=Ottmar%20Kullmer&orcid=),[Michael Laaß](http://www.mdpi.com/search?authors=Michael%20Laa%C3%9F&orcid=),[Malgorzata Makowska](http://www.mdpi.com/search?authors=Malgorzata%20Makowska&orcid=0000-0002-1767-6176),[Ingmar Werneburg](http://www.mdpi.com/search?authors=Ingmar%20Werneburg&orcid=0000-0003-1359-2036) and[Clément Zanolli](http://www.mdpi.com/search?authors=Cl%C3%A9ment%20Zanolli&orcid=)

J. Imaging *2018,* 4(*1), 22; doi:*[*10.3390/jimaging4010022*](https://doi.org/10.3390/jimaging4010022)

*Received: 30 October 2017 / Revised: 6 December 2017 / Accepted: 21 December 2017 / Published: 14 January 2018*

[Imaging with Polarized Neutrons](http://www.mdpi.com/2313-433X/4/1/23)

[Nikolay Kardjilov](http://www.mdpi.com/search?authors=Nikolay%20Kardjilov&orcid=),[André Hilger](http://www.mdpi.com/search?authors=Andr%C3%A9%20Hilger&orcid=),[Ingo Manke](http://www.mdpi.com/search?authors=Ingo%20Manke&orcid=),[Markus Strobl](http://www.mdpi.com/search?authors=Markus%20Strobl&orcid=0000-0001-9315-8787) and[John Banhart](http://www.mdpi.com/search?authors=John%20Banhart&orcid=0000-0003-4480-7730)

J. Imaging *2018*, 4(*1), 23; doi:*[*10.3390/jimaging4010023*](https://doi.org/10.3390/jimaging4010023)

*Received: 1 November 2017 / Revised: 29 December 2017 / Accepted: 11 January 2018 / Published: 16 January 2018*

[Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source](http://www.mdpi.com/2313-433X/3/4/65)

[Gian Song](http://www.mdpi.com/search?authors=Gian%20Song&orcid=),[Jiao Y. Y. Lin](http://www.mdpi.com/search?authors=Jiao%20Y.%20Y.%20Lin&orcid=0000-0001-9233-0100),[Jean C. Bilheux](http://www.mdpi.com/search?authors=Jean%20C.%20Bilheux&orcid=),[Qingge Xie](http://www.mdpi.com/search?authors=Qingge%20Xie&orcid=),[Louis J. Santodonato](http://www.mdpi.com/search?authors=Louis%20J.%20Santodonato&orcid=),[Jamie J. Molaison](http://www.mdpi.com/search?authors=Jamie%20J.%20Molaison&orcid=),[Harley D. Skorpenske](http://www.mdpi.com/search?authors=Harley%20D.%20Skorpenske&orcid=),[Antonio M. Dos Santos](http://www.mdpi.com/search?authors=Antonio%20M.%20Dos%20Santos&orcid=),[Chris A. Tulk](http://www.mdpi.com/search?authors=Chris%20A.%20Tulk&orcid=),[Ke An](http://www.mdpi.com/search?authors=Ke%20An&orcid=0000-0002-6093-429X),[Alexandru D. Stoica](http://www.mdpi.com/search?authors=Alexandru%20D.%20Stoica&orcid=),[Michael M. Kirka](http://www.mdpi.com/search?authors=Michael%20M.%20Kirka&orcid=),[Ryan R. Dehoff](http://www.mdpi.com/search?authors=Ryan%20R.%20Dehoff&orcid=),[Anton S. Tremsin](http://www.mdpi.com/search?authors=Anton%20S.%20Tremsin&orcid=0000-0003-2443-7576),[Jeffrey Bunn](http://www.mdpi.com/search?authors=Jeffrey%20Bunn&orcid=0000-0001-7738-0011),[Lindsay M. Sochalski-Kolbus](http://www.mdpi.com/search?authors=Lindsay%20M.%20Sochalski-Kolbus&orcid=) and [Hassina Z. Bilheux](http://www.mdpi.com/search?authors=Hassina%20Z.%20Bilheux&orcid=0000-0001-8574-2449)

J. Imaging *2017*, 3(*4), 65; doi:*[*10.3390/jimaging3040065*](https://doi.org/10.3390/jimaging3040065)

*Received: 10 November 2017 / Revised: 4 December 2017 / Accepted: 7 December 2017 / Published: 20 December 2017*

[Performance of the Commercial PP/ZnS:Cu and PP/ZnS:Ag Scintillation Screens for Fast Neutron Imaging](http://www.mdpi.com/2313-433X/3/4/60)

[Malgorzata G. Makowska](http://www.mdpi.com/search?authors=Malgorzata%20G.%20Makowska&orcid=0000-0002-1767-6176),[Bernhard Walfort](http://www.mdpi.com/search?authors=Bernhard%20Walfort&orcid=),[Albert Zeller](http://www.mdpi.com/search?authors=Albert%20Zeller&orcid=),[Christian Grünzweig](http://www.mdpi.com/search?authors=Christian%20Gr%C3%BCnzweig&orcid=) and [Thomas Bücherl](http://www.mdpi.com/search?authors=Thomas%20B%C3%BCcherl&orcid=)

J. Imaging *2017*, 3(*4), 60; doi:*[*10.3390/jimaging3040060*](https://doi.org/10.3390/jimaging3040060)

*Received: 31 October 2017 / Revised: 1 December 2017 / Accepted: 7 December 2017 / Published: 10 December 2017*

[Neutron Imaging of Laser Melted SS316 Test Objects with Spatially Resolved Small Angle Neutron Scattering](http://www.mdpi.com/2313-433X/3/4/58)

[Adam J. Brooks](http://www.mdpi.com/search?authors=Adam%20J.%20Brooks&orcid=), [Gerald L. Knapp](http://www.mdpi.com/search?authors=Gerald%20L.%20Knapp&orcid=0000-0002-2023-992X), [Jumao Yuan](http://www.mdpi.com/search?authors=Jumao%20Yuan&orcid=0000-0001-6302-4286), [Caroline G. Lowery](http://www.mdpi.com/search?authors=Caroline%20G.%20Lowery&orcid=), [Max Pan](http://www.mdpi.com/search?authors=Max%20Pan&orcid=), [Bridget E. Cadigan](http://www.mdpi.com/search?authors=Bridget%20E.%20Cadigan&orcid=), [Shengmin Guo](http://www.mdpi.com/search?authors=Shengmin%20Guo&orcid=), [Daniel S. Hussey](http://www.mdpi.com/search?authors=Daniel%20S.%20Hussey&orcid=) and [Leslie G. Butler](http://www.mdpi.com/search?authors=Leslie%20G.%20Butler&orcid=)

J. Imaging *2017*, 3(*4), 58; doi:*[*10.3390/jimaging3040058*](https://doi.org/10.3390/jimaging3040058)

*Received: 31 October 2017 / Revised: 30 November 2017 / Accepted: 1 December 2017 / Published: 5 December 2017*

[Small Angle Scattering in Neutron Imaging—A Review](http://www.mdpi.com/2313-433X/3/4/64)

[Markus Strobl](http://www.mdpi.com/search?authors=Markus%20Strobl&orcid=), [Ralph P. Harti](http://www.mdpi.com/search?authors=Ralph%20P.%20Harti&orcid=), [Christian Gruenzweig](http://www.mdpi.com/search?authors=Christian%20Gruenzweig&orcid=), [Robin Woracek](http://www.mdpi.com/search?authors=Robin%20Woracek&orcid=) and[Jeroen Plomp](http://www.mdpi.com/search?authors=Jeroen%20Plomp&orcid=)

J. Imaging *2017*, 3(*4), 64; doi:*[*10.3390/jimaging3040064*](https://doi.org/10.3390/jimaging3040064)

*Received: 6 November 2017 / Revised: 6 December 2017 / Accepted: 8 December 2017 / Published: 13 December*

[Neutron Imaging Facilities in a Global Context](http://www.mdpi.com/2313-433X/3/4/52)

[Eberhard H. Lehmann](http://www.mdpi.com/search?authors=Eberhard%20H.%20Lehmann&orcid=)

J. Imaging *2017*, 3(*4), 52; doi:*[*10.3390/jimaging3040052*](https://doi.org/10.3390/jimaging3040052)

*Received: 30 October 2017 / Revised: 8 November 2017 / Accepted: 17 November 2017 / Published: 21 November 2017*

[**Journal of Physical Chemistry C**](https://pubs.acs.org/toc/jpccck/122/41) **(1)**

[Observing Chemical Reactions by Time-Resolved High-Resolution Neutron Imaging](https://pubs.acs.org/doi/10.1021/acs.jpcc.8b07321)

Jasmin Terreni, Matthias Trottmann, Renaud Delmelle, Andre Heel, Pavel Trtik, Eberhard H. Lehmann, Andreas Borgschulte\*

*J. Phys. Chem. C 2018, 122, 41, 23574-23581*

*Publication Date:September 21, 2018*

[*https://doi.org/10.1021/acs.jpcc.8b07321*](https://doi.org/10.1021/acs.jpcc.8b07321)

[**Journal of Power Sources**](https://www.sciencedirect.com/journal/journal-of-power-sources) **(2)**

[Imaging of the Li spatial distribution within V2O5 cathode in a coin cell by neutron computed tomography](https://www.sciencedirect.com/science/article/abs/pii/S037877531731563X)

[Yuxuan Zhang, K.S. Ravi Chandran, Hassina Z.Bilheux](https://www.sciencedirect.com/science/article/abs/pii/S037877531731563X#!)

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)*,* [*Volume 376*](https://www.sciencedirect.com/science/journal/03787753/376/supp/C)*, 1 February 2018, Pages 125-130*

[*https://doi.org/10.1016/j.jpowsour.2017.11.080*](https://doi.org/10.1016/j.jpowsour.2017.11.080)

[In-operando stress measurement and neutron imaging of metal hydride composites for solid-state hydrogen storage](https://www.sciencedirect.com/science/article/abs/pii/S0378775318306979)

[Felix Heubner, André Hilger, Nikolay Kardjilov, Ingo Manke, Bernd Kieback, Łukasz Gondek, John Banhart, Lars Röntzsch](https://www.sciencedirect.com/science/article/abs/pii/S0378775318306979#!)

[*Journal of Power Sources*](https://www.sciencedirect.com/science/journal/03787753)*,* [*Volume 397*](https://www.sciencedirect.com/science/journal/03787753/397/supp/C)*, 1 September 2018, Pages 262-270*

*https://doi.org/10.1016/j.jpowsour.2018.06.093*

[**Journal of the Royal Society Interface**](https://royalsocietypublishing.org/journal/rsif) **(1)**

[Neutron scanning reveals unexpected complexity in the enamel thickness of an herbivorous Jurassic reptile](https://royalsocietypublishing.org/toc/rsif/2018/15/143)

[Marc E. H. Jones](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Jones%2C+Marc+E+H), [Peter W. Lucas](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Lucas%2C+Peter+W), [Abigail S. Tucker](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Tucker%2C+Abigail+S), [Amy P. Watson](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Watson%2C+Amy+P), [Joseph J. W. Sertich](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Sertich%2C+Joseph+J+W), [John R. Foster](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Foster%2C+John+R), [Ruth Williams](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Williams%2C+Ruth), [Ulf Garbe](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Garbe%2C+Ulf), [Joseph J. Bevitt](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Bevitt%2C+Joseph+J),  [Floriana Salvemini](https://royalsocietypublishing.org/action/doSearch?ContribAuthorRaw=Salvemini%2C+Floriana)

*Journal of the Royal Society Interface 15 (143), 20180039*

[**Journal of Systematic Palaeontology**](https://www.tandfonline.com/toc/tjsp20/current) **(1)**

[Neutron tomography of Austrosequoia novae-zeelandiae comb. nov. (Late Cretaceous, Chatham Islands, New Zealand): implications for Sequoioideae phylogeny and biogeography](https://www.tandfonline.com/doi/abs/10.1080/14772019.2017.1314898)

Chris Mays, David J Cantrill, Jeffrey D Stilwell, Joseph J Bevitt

*Journal of Systematic Palaeontology 16 (7), 551-570*

[**Materials and Design**](https://www.sciencedirect.com/journal/materials-and-design) **(1)**

[Mapping of axial plastic zone for roller bearing overloads using neutron transmission imaging](https://www.sciencedirect.com/science/article/pii/S0264127518305094)

[A.Reid, I.Martinez, M.Marshall, T.Minniti, S.Kabra, W.Kockelmann, T.Connolley, M.Mostafavi](https://www.sciencedirect.com/science/article/pii/S0264127518305094#!)

[*Materials & Design*](https://www.sciencedirect.com/science/journal/02641275)*,* [*Volume 156*](https://www.sciencedirect.com/science/journal/02641275/156/supp/C)*, 15 October 2018, Pages 103-112*

[*https://doi.org/10.1016/j.matdes.2018.06.042*](https://doi.org/10.1016/j.matdes.2018.06.042)

[**Materials Today**](https://www.sciencedirect.com/journal/materials-today) **(1)**

[Advances in neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S1369702117306594)

[Nikolay Kardjilov, Ingo Manke, Robin Woracek, André Hilger, JohnBanhart](https://www.sciencedirect.com/science/article/abs/pii/S1369702117306594#!)

*MaterialsToday,* [*Volume 21, Issue 6*](https://www.sciencedirect.com/science/journal/13697021/21/6)*, July–August 2018, Pages 652-672*

[*https://doi.org/10.1016/j.mattod.2018.03.001*](https://doi.org/10.1016/j.mattod.2018.03.001)

[**Minerals Engineering**](https://www.sciencedirect.com/journal/minerals-engineering) **(1)**

[Neutron imaging of froth structure and particle motion](https://www.sciencedirect.com/science/article/abs/pii/S0892687518300323)

[Sascha Heitkam, Martin Rudolph, Tobias Lappan, Martins Sarma, Sven Eckert, Pavel Trtik, Eberhard Lehmann, Peter Vontobel, Kerstin Eckert](https://www.sciencedirect.com/science/article/abs/pii/S0892687518300323#!)

[*Minerals Engineering*](https://www.sciencedirect.com/science/journal/08926875)*,* [*Volume 119*](https://www.sciencedirect.com/science/journal/08926875/119/supp/C)*, April 2018, Pages 126-129*

[*https://doi.org/10.1016/j.mineng.2018.01.021*](https://doi.org/10.1016/j.mineng.2018.01.021)

[**Nature Reviews Materials**](https://www.nature.com/natrevmats/) **(1)**

|  |  |
| --- | --- |
| [Discovering dinosaurs with neutrons](file:///E%3A%5CToolkit%5CBackup%5CJOHN-PC%5Cc%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5CNew%20database%5CDiscovering%20dinosaurs%20with%20neutrons)JJ Bevitt*Nature Reviews Materials 3 (9), 296-298* |  |

[**Nature Scientific Reports**](http://www.nature.com/srep/) **(1)**

[Continuous cropping of endangered therapeutic plants *via* electron beam soil-treatment and neutron tomography](http://www.nature.com/articles/s41598-018-20124-7)

[Cheul Muu Sim](http://www.nature.com/articles/s41598-018-20124-7#auth-1), [Bong Jae Seong](http://www.nature.com/articles/s41598-018-20124-7#auth-2), [Dong Won Kim](http://www.nature.com/articles/s41598-018-20124-7#auth-3), [Yong Bum Kim](http://www.nature.com/articles/s41598-018-20124-7#auth-4), [Seung Gon Wi](http://www.nature.com/articles/s41598-018-20124-7#auth-5), [Gyuil Kim](http://www.nature.com/articles/s41598-018-20124-7#auth-6), [Hwasuk Oh](http://www.nature.com/articles/s41598-018-20124-7#auth-7), [TaeJoo Kim](http://www.nature.com/articles/s41598-018-20124-7#auth-8), [Byung Yeoup Chung](http://www.nature.com/articles/s41598-018-20124-7#auth-9), [Jeong Young Song](http://www.nature.com/articles/s41598-018-20124-7#auth-10), [Hong Gi Kim](http://www.nature.com/articles/s41598-018-20124-7#auth-11), [Sang-Keun Oh](http://www.nature.com/articles/s41598-018-20124-7#auth-12), [Young Dol Shin](http://www.nature.com/articles/s41598-018-20124-7#auth-13), [Jea Hwan Seok](http://www.nature.com/articles/s41598-018-20124-7#auth-14), [Min Young Kang](http://www.nature.com/articles/s41598-018-20124-7#auth-15), [Yunhee Lee](http://www.nature.com/articles/s41598-018-20124-7#auth-16), [Mabuti Jacob Radebe](http://www.nature.com/articles/s41598-018-20124-7#auth-17), [Nikolay Kardjilov](http://www.nature.com/articles/s41598-018-20124-7#auth-18) & [Bernd Honermeier](http://www.nature.com/articles/s41598-018-20124-7#auth-19)

*Scientific Reports 8, 2136*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002/833/supp/C) **(7)**

[Three-dimensional detectors for neutron imaging](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa88d&p1=www.sciencedirect.com/science?_ob=GatewayURL&_method=citationSearch&_version=1&_piikey=S0168900217308379&_origin=RV_SD_TOC_EMAIL&dgcid=raven_sd_via_email)
R. Mendicino, G.-F. Dalla Betta

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa882&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)[*Volume 878, Pages 1-258, 11 January 2018*](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa887&p1=www.sciencedirect.com/science/journal/01689002/878/supp/C&dgcid=raven_sd_via_email) *Pages 129-140*

[Diffraction in neutron imaging—A review](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa88d&p1=www.sciencedirect.com/science?_ob=GatewayURL&_method=citationSearch&_version=1&_piikey=S0168900217307817&_origin=RV_SD_TOC_EMAIL&dgcid=raven_sd_via_email)
Robin Woracek, Javier Santisteban, Anna Fedrigo, Markus Strobl

[Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa882&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)
[Volume 878, Pages 1-258, 11 January 2018](http://rt1-t.notifications.elsevier.com/r/?id=h4346ead,42aa87c,42aa887&p1=www.sciencedirect.com/science/journal/01689002/878/supp/C&dgcid=raven_sd_via_email) *Pages 141-158*

[Characterization of the new neutron imaging and materials science facility IMAT](http://rt1-t.notifications.elsevier.com/r/?id=h50cccd2,4a3ac11,4a3ac22&p1=www.sciencedirect.com/science?_ob=GatewayURL&_method=citationSearch&_version=1&_piikey=S0168900218300548&_origin=RV_SD_TOC_EMAIL&dgcid=raven_sd_via_email)
Triestino Minniti, Kenichi Watanabe, Genoveva Burca, Daniel E. Pooley, Winfried Kockelmann

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://rt1-t.notifications.elsevier.com/r/?id=h50cccd2,4a3ac11,4a3ac17&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)[*Volume 888, Pages 1-268, 21 April 2018*](http://rt1-t.notifications.elsevier.com/r/?id=h50cccd2,4a3ac11,4a3ac1c&p1=www.sciencedirect.com/science/journal/01689002/888/supp/C&dgcid=raven_sd_via_email) *Pages 184-195*

[Development of neutron imaging beamline for NDT applications at Dhruva reactor, India](http://rt1-t.notifications.elsevier.com/r/?id=h568dfc2,4dcaa1c,4dcaa87&p1=www.sciencedirect.com/science?_ob=GatewayURL&_method=citationSearch&_version=1&_piikey=S016890021830144X&_origin=RV_SD_TOC_EMAIL&dgcid=raven_sd_via_email)
Mayank Shukla, Tushar Roy, Yogesh Kashyap, Shefali Shukla, Prashant Singh, Baribaddala Ravi, Tarun Patel, S.C. Gadkari

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://rt1-t.notifications.elsevier.com/r/?id=h568dfc2,4dcaa1c,4dcaa22&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)[*Volume 889, Pages 1-144, 1 May 2018*](http://rt1-t.notifications.elsevier.com/r/?id=h568dfc2,4dcaa1c,4dcaa81&p1=www.sciencedirect.com/science/journal/01689002/889/supp/C&dgcid=raven_sd_via_email) *Pages 63-68*

[Fluid-flow measurements in low permeability media with high pressure gradients using neutron imaging: Application to concrete](http://rt2-t.notifications.elsevier.com/r/?id=h55b9072,4de3986,4de3997&p1=www.sciencedirect.com/science?_ob=GatewayURL&_method=citationSearch&_version=1&_piikey=S0168900218301931&_origin=RV_SD_TOC_EMAIL&dgcid=raven_sd_via_email)
Mohamad Yehya, Edward Andò, Frédéric Dufour, Alessandro Tengattini

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://rt2-t.notifications.elsevier.com/r/?id=h55b9072,4de3986,4de398c&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)[*Volume 890, Pages 1-154, 11 May 2018*](http://rt2-t.notifications.elsevier.com/r/?id=h55b9072,4de3986,4de3991&p1=www.sciencedirect.com/science/journal/01689002/890/supp/C&dgcid=raven_sd_via_email) *Pages 35-42*

|  |
| --- |
| [An efficient and cost-effective microchannel plate detector for slow neutron radiography](https://www.sciencedirect.com/science/article/pii/S0168900218302304?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)    B.B. Wiggins, J. Vadas, D. Bancroft, Z.O. deSouza, J. Huston, S. Hudan, D.V. Baxter, R.T. de Souza[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://rt2-t.notifications.elsevier.com/r/?id=h56cb44d,4de3986,4de398c&p1=www.sciencedirect.com/science/journal/01689002&dgcid=raven_sd_via_email)[*Volume 891, Pages 1-134, 21 May 2018*](http://rt2-t.notifications.elsevier.com/r/?id=h56cb44d,4de3986,4de3991&p1=www.sciencedirect.com/science/journal/01689002/891/supp/C&dgcid=raven_sd_via_email) *Pages 53-57*[Thermal neutron detector based on COTS CMOS imagers and a conversion layer containing Gadolinium](https://www.sciencedirect.com/science/article/abs/pii/S0168900218303681)[Martín Pérez, Juan Jerónimo Blostein, Fabricio Alcalde Bessia, Aureliano Tartaglione, Iván Sidelnik, Miguel Sofo Haro, Sergio Suárez, Melisa Lucía Gimenez, Mariano Gómez Berisso, Jose Lipovetzky](https://www.sciencedirect.com/science/article/abs/pii/S0168900218303681#!)[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](https://www.sciencedirect.com/science/journal/01689002)*,* [*Volume 893*](https://www.sciencedirect.com/science/journal/01689002/893/supp/C)*, 11 June 2018, Pages 157-163*[*https://doi.org/10.1016/j.nima.2018.03.032*](https://doi.org/10.1016/j.nima.2018.03.032)[**Physics B; Condensed Matter**](https://www.sciencedirect.com/journal/physica-b-condensed-matter) **(3)**[Investigating phase behavior and structural changes in NiO/Ni-YSZ composite with monochromatic in-situ 2D and static 3D neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0921452617309134)[Malgorzata G.Makowska, Markus Strobl, Nikolay Kardjilov, Henrik Lund Frandsen, Ingo Manke, Manuel Morgano, Monica E.Lacatusu, Salvatore de Angelis, Erik Mejdal Lauridsen, Luise Theil Kuhn](https://www.sciencedirect.com/science/article/abs/pii/S0921452617309134#!)[*Physica B: Condensed Matter*](https://www.sciencedirect.com/science/journal/09214526)*,* [*Volume 551*](https://www.sciencedirect.com/science/journal/09214526/551/supp/C)*, 15 December 2018, Pages 24-28*[*https://doi.org/10.1016/j.physb.2017.11.026*](https://doi.org/10.1016/j.physb.2017.11.026)[Study of the magnetization distribution in a grain-oriented magnetic steel using pulsed polarized neutron imaging](https://www.sciencedirect.com/science/article/abs/pii/S0921452618303399#!)[K.Hiroi, T.Shinohara, H.Hayashida, J.D.Parker, Y.H.Su, K.Oikawa, T.Kai, Y.Kiyanagi](https://www.sciencedirect.com/science/article/abs/pii/S0921452618303399#!)[*Physica B: Condensed Matter*](https://www.sciencedirect.com/science/journal/09214526)*,* [*Volume 551*](https://www.sciencedirect.com/science/journal/09214526/551/supp/C)*, 15 December 2018, Pages 146-151*[*https://doi.org/10.1016/j.physb.2018.05.013*](https://doi.org/10.1016/j.physb.2018.05.013)[Characteristics of the 2012 model lithium-6 time-analyzer neutron detector (LiTA12) system as a high efficiency detector for resonance absorption imaging](https://www.sciencedirect.com/science/article/abs/pii/S092145261730981X)[TetsuyaKai, Setsuo Satoh, Kosuke Hiroi, Yuhua Su, Mariko Segawa, Joseph Don Parker, Yoshihiro Matsumoto, Hirotoshi Hayashida, Takenao Shinohara, Kenichi Oikawa, Yoshiaki Kiyanagi](https://www.sciencedirect.com/science/article/abs/pii/S092145261730981X#!)[*Physica B: Condensed Matter*](https://www.sciencedirect.com/science/journal/09214526)*,* [*Volume 551*](https://www.sciencedirect.com/science/journal/09214526/551/supp/C)*, 15 December 2018, Pages 496-500*[*https://doi.org/10.1016/j.physb.2017.11.086*](https://doi.org/10.1016/j.physb.2017.11.086)[**Procedia Structural Integrity**](https://www.sciencedirect.com/journal/procedia-structural-integrity) **(1)**[Neutron diffraction and neutron imaging residual strain measurements on offshore wind monopole weldments](https://www.sciencedirect.com/science/article/pii/S2452321618303196)[Anaïs Jacob,](https://www.sciencedirect.com/science/article/pii/S2452321618303196%22%20%5Cl%20%22%21) [Ali Mehmanparast,](https://www.sciencedirect.com/science/article/pii/S2452321618303196%22%20%5Cl%20%22%21) [Joe Kelleher,](https://www.sciencedirect.com/science/article/pii/S2452321618303196%22%20%5Cl%20%22%21) [Genoveva Burc](https://www.sciencedirect.com/science/article/pii/S2452321618303196%22%20%5Cl%20%22%21)a[*Procedia Structural Integrity*](https://www.sciencedirect.com/science/journal/24523216)*,* [*Volume 13*](https://www.sciencedirect.com/science/journal/24523216/13/supp/C)*, 2018, Pages 517-522*[*https://doi.org/10.1016/j.prostr.2018.12.085*](https://doi.org/10.1016/j.prostr.2018.12.085)**2017** |

Total number of papers listed: 75

[**AIP Advances**](http://scitation.aip.org/content/aip/journal/apl) **(1)**

[Non-contact measurement of partial gas pressure and distribution of elemental composition using energy-resolved neutron imaging](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=DOAJ-ART-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Fdx.doi.org%252F10.1063%252F1.4975632%26collectionCode%3DDOAJ-ART-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3De3395024830ebe7fb2e9620539e3847c0b0e2a6376c1f8355bc1b554e651c621)

A. S. Tremsin

*2017-01-01 AIP Advances Volume: 7 Issue: 1 Pages: 015315-015315-14*

*DOI: 10.1063/1.4975632 ISSN: 2158-3226*

[**Arxiv.org**](https://arxiv.org/) **(1)**

[High Spatial-Resolution Fast Neutron Detectors for Imaging and Spectrometry](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=96d031c4-4866-46bf-be62-ff0c346d36d4&type=RESULT&collectionCode=WWS-ARXIV&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Farxiv.org%252Fpdf%252F1704.08706v1%26collectionCode%3DWWS-ARXIV%26searchId%3D96d031c4-4866-46bf-be62-ff0c346d36d4%26type%3DRESULT%26signature%3D20b9e29ca4aa468a0d568e0eae70e58ab0a5afd92c92493a54f1ed2af5afe5a9)

Ilan Mor

[*ArXiv.org*](http://arxiv.org/) *2017-04-27*

[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/aip/09698043) **(1)**

[Fast neutron radiography and tomography at a 10MW research reactor beamline.](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Feuropepmc.org%252Fabstract%252FMED%252F27842231%26collectionCode%3DUKPMC-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D03dfcabac7c84a767b6418f3abeaa8323bf74ad88f2327b78089bdf14be30232)

Zboray R; Adams R; Kis Z.

*2017-01 Applied Radiation and Isotopes: including data, instrumentation and methods for use in agriculture, industry and medicine Volume: 119 Pages: 43-50 PMID: 27842231*

*DOI: 10.1016/j.apradiso.2016.10.012 ISSN: 0969-8043*

[**Bone**](https://www.sciencedirect.com/journal/bone) **(1)**

[Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography](https://www.sciencedirect.com/science/article/abs/pii/S8756328217302570)

[Hanna Isaksson, Sophie Le Cann, Christina Perdikouri, Mikael J.Turunen, Anders Kaestner, Magnus Tägil, Stephen A.Hall, Erika Tudisco](https://www.sciencedirect.com/science/article/abs/pii/S8756328217302570#!)

[*Bone*](https://www.sciencedirect.com/science/journal/87563282)*,* [*Volume 103*](https://www.sciencedirect.com/science/journal/87563282/103/supp/C)*, October 2017, Pages 295-301*

[*https://doi.org/10.1016/j.bone.2017.07.022*](https://doi.org/10.1016/j.bone.2017.07.022)

[**Current Opinion in Electrochemistry**](https://www.sciencedirect.com/journal/current-opinion-in-electrochemistry) **(1)**

[Neutron imaging of fuel cells – Recent trends and future prospects](https://www.sciencedirect.com/science/article/abs/pii/S2451910317300236)

[P.Boillat, E.H.Lehmann, P.Trtik, M.Cochet](https://www.sciencedirect.com/science/article/abs/pii/S2451910317300236#!)

[*Current Opinion in Electrochemistry*](https://www.sciencedirect.com/science/journal/24519103)*,* [*Volume 5, Issue 1*](https://www.sciencedirect.com/science/journal/24519103/5/1)*, October 2017, Pages 3-10*

[*https://doi.org/10.1016/j.coelec.2017.07.012*](https://doi.org/10.1016/j.coelec.2017.07.012)

[**European Physical Journal - Applied Physics**](https://www.epjap.org/component/issues/) **(1)**

[Statistical Uncertainty in Quantitative Neutron Radiography](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=96d031c4-4866-46bf-be62-ff0c346d36d4&type=RESULT&collectionCode=WWS-ARXIV&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Farxiv.org%252Fpdf%252F1603.06849v2%26collectionCode%3DWWS-ARXIV%26searchId%3D96d031c4-4866-46bf-be62-ff0c346d36d4%26type%3DRESULT%26signature%3Dc1ad9f7f55d94f3da37341ffe20383f9d83403d91984aabe2c360a15d69bc6a7)

Florian M. Piegsa; Anders P. Kaestner; Aldo Antognini; Andreas Eggenberger; Klaus Kirch; Gunther Wichmann

*Eur. Phys. J. Appl. Phys. (2017) 78: 10702*

[**Fossil Record**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291860-1014) **(1)**

[Neutron imaging investigation of fossil woods: non-destructive characterization of microstructure and detection of in situ changes as occurring in museum cabinets](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=DOAJ-ART-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Fwww.foss-rec.net%252F20%252F95%252F2017%252Ffr-20-95-2017.pdf%26collectionCode%3DDOAJ-ART-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D72c5f61f52c1ed3d08299daa890a19cd8af78679bfd70887f6b031e0f947fecb)

G. P. Odin, V. Rouchon, F. Ott, N. Malikova, P. Levitz, L. Michot

*2017-02-01 Fossil Record Volume: 20 Issue: 1 Pages: 95-103*

*DOI: 10.5194/fr-20-95-2017 ISSN: 2193-0074*

[**Geology**](https://pubs.geoscienceworld.org/gsa/geology/article-abstract/45/12/1119/519369/Polar-wildfires-and-conifer-serotiny-during-the?redirectedFrom=fulltext) **(1)**

[Polar wildfires and conifer serotiny during the Cretaceous global hothouse](https://pubs.geoscienceworld.org/gsa/geology/article-abstract/45/12/1119/519369/Polar-wildfires-and-conifer-serotiny-during-the?redirectedFrom=fulltext)

Chris Mays, David J. Cantrill, Joseph J. Bevitt

*Geology (2017) 45 (12): 1119–1122.*

[*https://doi.org/10.1130/G39453.1*](https://doi.org/10.1130/G39453.1)

[**Journal of Nuclear Materials**](http://www.sciencedirect.com/science/journal/00223115) **(2)**

[Identification of lithium hydride and its hydrolysis products with neutron imaging](http://www.sciencedirect.com/science/article/pii/S0022311516307590)

E. Garlea, M.O. King, E.C. Galloway, T.L. Boyd, N.R. Smyrl, H.Z. Bilheux, L.J. Santodonato, J.S. Morrell, J.H. Leckey

*Journal of Nuclear Materials, Volume 485, March 2017, Pages 147-153*

[Study of secondary hydriding at high temperature in zirconium based nuclear fuel cladding tubes by coupling information from neutron radiography/tomography, electron probe micro analysis, micro elastic recoil detection analysis and laser induced breakdown spectroscopy microprobe](http://www.sciencedirect.com/science/article/pii/S0022311516308960)

Jean-Christophe Brachet, Didier Hamon, Matthieu Le Saux, Valérie Vandenberghe, Caroline Toffolon-Masclet, Elodie Rouesne, Stéphane Urvoy, Jean-Luc Béchade, Caroline Raepsaet, Jean-Luc Lacour, Guy Bayon, Frédéric Ott

*Journal of Nuclear Materials, Volume 488, May 2017, Pages 267-286*

[**Journal of Power Sources**](http://scitation.aip.org/content/aip/journal/jcp;jsessionid=8FooNzM9Cu4VILZmuZPx6t9m.x-aip-live-02) **(1)**

[Coupling between creep and redox behavior in nickel - yttria stabilized zirconia observed in-situ by monochromatic neutron imaging](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=DEFFRD-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Fwww.forskningsdatabasen.dk%252Fen%252Fcatalog%252F2349254526%26collectionCode%3DDEFFRD-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D5837f31104afe6ba9b63a45dc5354cd7670c601c32aba5bc81bfbcf34f377abf)

Makowska, Malgorzata Grazyna; Kuhn, Luise Theil; Frandsen, Henrik Lund

*2017-01-01 Journal of Power Sources Volume: 340 Pages: 167-175*

*DOI: 10.1016/j.jpowsour.2016.11.059*

[**Journal of Radioanalytical and Nuclear Chemistry**](http://www.sciencedirect.com/science/journal/00219797/471/supp/C) **(1)**

[Research with radiation and radioisotopes to better understand plant physiology and agricultural consequences of radioactive contamination from the Fukushima Daiichi nuclear accident.](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Feuropepmc.org%252Fabstract%252FMED%252F28250543%26collectionCode%3DUKPMC-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D836b5f122bf9accb306a2e1b1eaac070583246189920fb05c26f99dddbddd34d)

Nakanishi TM.

*2017 Journal of Radioanalytical and Nuclear Chemistry Volume: 311 Issue: 2 Pages: 947-971 PMID: 28250543, DOI: 10.1007/s10967-016-5148-z ISSN: 0236-5731*

[**Materials Letters**](http://www.sciencedirect.com/science/journal/0167577X) **(1)**

[Visualization of rapid penetration of water into cracked cement mortar using neutron radiography](http://www.sciencedirect.com/science/article/pii/S0167577X17302483)

Peng Zhang, Zhaolin Liu, Songbai Han, Linfeng He, Harald S. Müller, Tiejun Zhao, Yu Wang

*Materials Letters, Volume 195, 15 May 2017, Pages 1-4*

[**Nuclear Engineering and Design**](http://www.sciencedirect.com/science/journal/00295493) **(1)**

[Development of neutron and X-ray imaging techniques for nuclear fuel bundle optimization](http://www.sciencedirect.com/science/article/pii/S0029549317302212)

Robert Zboray, Christian Bolesch, Horst-Michael Prasser

*Nuclear Engineering and Design, In Press, Corrected Proof, Available online 4 May 2017*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002/833/supp/C) **(5)**

[Characterization of a neutron sensitive MCP/Timepix detector for quantitative image analysis at a pulsed neutron source](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)

[Kenichi Watanabe](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email" \l "!), [Triestino Minniti](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Winfried Kockelmann](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Robert Dalgliesh](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Genoveva Burca](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!) & [Anton S.Tremsin](https://www.sciencedirect.com/science/article/pii/S0168900217304977?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *861, 55–63 (2017)*

[Neutron imaging detector with 2 μm spatial resolution based on event reconstruction of neutron capture in gadolinium oxysulfide scintillators](https://www.sciencedirect.com/science/article/pii/S0168900217305880?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)

[Daniel S.Hussey](https://www.sciencedirect.com/science/article/pii/S0168900217305880?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Jacob M.LaManna](https://www.sciencedirect.com/science/article/pii/S0168900217305880?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Elias Baltic](https://www.sciencedirect.com/science/article/pii/S0168900217305880?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [David L.Jacobson](https://www.sciencedirect.com/science/article/pii/S0168900217305880?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *866, 9–12 (2017)*

[Fast neutron transmission imaging of the interior of large-scale concrete structures using a newly developed pixel-type detector](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)

[Yoshichika Seki](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Atsushi Taketani](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!),[Takao Hashiguchi](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Sheng Wang](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Maki Mizuta](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Yasuo Wakabayashi](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Yoshie Otake](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [YutakaYamagata,](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!) [Hidetada Baba](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Koichi Kino](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [Katsuya Hirota](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!) & [Shuji Tanaka](https://www.sciencedirect.com/science/article/pii/S0168900217307623?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *870, 148–155 (2017)*

[Reducing the spatial resolution range of neutron radiographs cast by thick objects](https://www.sciencedirect.com/science/article/pii/S0168900217308276?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)

[G.L.Almeida](https://www.sciencedirect.com/science/article/pii/S0168900217308276?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [M.I.Silvani](https://www.sciencedirect.com/science/article/pii/S0168900217308276?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!), [E.S.Souza](https://www.sciencedirect.com/science/article/pii/S0168900217308276?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!) & [R.T.Lopes](https://www.sciencedirect.com/science/article/pii/S0168900217308276?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *871, 127–134 (2017)*

[Neutron imaging with lithium indium diselenide: Surface properties, spatial resolution, and computed tomography](https://www.sciencedirect.com/science/article/pii/S0168900217308999?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email)

[Eric D.Lukosi, Elan H.Herrera, Daniel S.Hamm, Arnold Burger &](https://www.sciencedirect.com/science/article/pii/S0168900217308999?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!) [Ashley C.Stowe](https://www.sciencedirect.com/science/article/pii/S0168900217308999?_rdoc=1&_fmt=high&_origin=gateway&_docanchor=&md5=b8429449ccfc9c30159a5f9aeaa92ffb&dgcid=raven_sd_via_email#!)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *872, 181–186 (2017)*

[**Palaeontologia Electronica**](https://www.palass.org/)**(1)**

[Pushing the limits of neutron tomography in palaeontology: three-dimensional modelling of in situ resin within fossil plants](https://www.diva-portal.org/smash/get/diva2%3A1166778/FULLTEXT01.pdf)

Chris Mays, Joseph Bevitt, Jeffrey Stilwell

*Palaeontologia Electronica, Volume 20, Issue 3.57 A, Pages 1-12, 2017*

[**Physics Procedia**](http://www.sciencedirect.com/science/journal/18753892)**(51)**

[Neutron Imaging for Applications in Industry and Science Proceedings of the 8th International Topical Meeting on Neutron Radiography (ITMNR-8) Beijing, China, September 4-8, 2016](https://www.sciencedirect.com/journal/physics-procedia/vol/88)

Edited by Dongfeng Chen, Zhiyu Guo, Songbai Han, Yuntao Liu and Meimei Wu

Volume 88, Pages 1-382 (2017)

 **Industrial Applications**

[Recent Applications of Neutron Imaging Methods](http://www.sciencedirect.com/science/article/pii/S1875389217301050)

Pages 5-12

E. Lehmann, D. Mannes, A. Kaestner, C. Grünzweig

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1113 K)](http://www.sciencedirect.com/science/article/pii/S1875389217301050/pdfft?md5=f1cf79c6b8af43ea3ace74e9c4ba10fa&pid=1-s2.0-S1875389217301050-main.pdf)

[Industrial Application Experiments on the Neutron Imaging Instrument DINGO](http://www.sciencedirect.com/science/article/pii/S1875389217300512)

Pages 13-18

Ulf Garbe, Yogita Ahuja, Ralph Ibrahim, Huijun Li, Laurie Aldridge, Filomena Salvemini, Anna Ziara Paradowska

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (645 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300512/pdf?md5=ec93c1a253d7ac38222fa45bff4d3499&pid=1-s2.0-S1875389217300512-main.pdf)

[PEM Water Electrolysis: Preliminary Investigations Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389217300524)

Pages 19-26

Frikkie de Beer, Jan-Hendrik van der Merwe, Dmitri Bessarabov

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (4887 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300524/pdf?md5=0336c50cf6894d4c31eb3c58f79613a1&pid=1-s2.0-S1875389217300524-main.pdf)

[Structural Change of Carbon Anode in a Lithium-ion Battery Product Associated with Charging Process Observed by Neutron Transmission Bragg-edge Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300536)

Pages 27-33

Takashi Kamiyama, Yuki Narita, Hirotaka Sato, Masato Ohnuma, Yoshiaki Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (872 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300536/pdf?md5=8bb7fef7acd7a9a35a7cbcc0abde1707&pid=1-s2.0-S1875389217300536-main.pdf)

[A Comparative Study of the Crystallite Size and the Dislocation Density of Bent Steel Plates using Bragg-edge Transmission Imaging, TOF Neutron Diffraction and EBSD](http://www.sciencedirect.com/science/article/pii/S1875389217300548)

Pages 34-41

K. Oikawa, Y.H. Su, Y. Tomota, T. Kawasaki, T. Shinohara, T. Kai, K. Hiroi, S.Y. Zhang, J.D. Parker, H. Sato, Y. Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1598 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300548/pdf?md5=553cc42d4a74e4e90f432ce5d4ae4881&pid=1-s2.0-S1875389217300548-main.pdf)

[Time-of-flight Neutron Transmission Imaging of Martensite Transformation in Bent Plates of a Fe-25Ni-0.4C Alloy](http://www.sciencedirect.com/science/article/pii/S187538921730055X)

Original Research Article

Pages 42-49

Y.H. Su, K. Oikawa, T. Shinohara, T. Kai, K. Hiroi, S. Harjo, T. Kawasaki, W. Gong, S.Y. Zhang, J.D. Parker, H. Hayashida, H. Sato, Y. Kiyanagi, Y. Tomota

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1257 K)](http://www.sciencedirect.com/science/article/pii/S187538921730055X/pdf?md5=ba19f71bf7b38404a0c844b455b730c3&pid=1-s2.0-S187538921730055X-main.pdf)

[Microstructural Information Mapping of a Plastic-deformed α-iron Plate during Tensile Tests using Pulsed Neutron Transmission](http://www.sciencedirect.com/science/article/pii/S1875389217300561)

Pages 50-57

Takashi Kamiyama, Kenji Iwase, Hirotaka Sato, Stefanus Harjo, Takayoshi Ito, Shin-ichi Takata, Kazuya Aizawa, Yoshiaki Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1586 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300561/pdf?md5=e44560de4d84f784c0a1ef41647b855b&pid=1-s2.0-S1875389217300561-main.pdf)

[Visualization of Solidification Process in Lead-bismuth Eutectic](http://www.sciencedirect.com/science/article/pii/S1875389217300573)

Pages 58-63

Daisuke Ito, Yasushi Saito, Hirotaka Sato, Takenao Shinohara

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (3700 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300573/pdf?md5=7171dd0a138102adbfc08bc5a9798445&pid=1-s2.0-S1875389217300573-main.pdf)

[A Feasibility Study on Reactor Based Fission Neutron Radiography of 200-l Waste Packages](http://www.sciencedirect.com/science/article/pii/S1875389217300585)

Pages 64-72

T. Bücherl, O. Kalthoff, Ch. Lierse von Gostomski

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1424 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300585/pdf?md5=34f77c8c78c50993beef08c925fe1465&pid=1-s2.0-S1875389217300585-main.pdf)

[Applications of Neutron Radiography for the Nuclear Power Industry](http://www.sciencedirect.com/science/article/pii/S1875389217300597)

Pages 73-80

Aaron E. Craft, John P. Barton

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (501 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300597/pdf?md5=a7794d15d2fad42d2c252b7dc9638a1a&pid=1-s2.0-S1875389217300597-main.pdf)

[Conversion from Film to Image Plates for Transfer Method Neutron Radiography of Nuclear Fuel](http://www.sciencedirect.com/science/article/pii/S1875389217300603)

Original Research Article

Pages 81-88

Aaron E. Craft, Glen C. Papaioannou, David L. Chichester, Walter J. Williams

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1369 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300603/pdf?md5=65ef51ebdd1875f0da3e282afaa5d1b0&pid=1-s2.0-S1875389217300603-main.pdf)

[Pulsed Neutron Imaging for Non-destructive Testing using Simulated Nuclear Fuel Samples](http://www.sciencedirect.com/science/article/pii/S1875389217300615)

Original Research Article

Pages 89-94

Daisuke Ito, Tadafumi Sano, Jun-ichi Hori, Yoshiyuki Takahashi, Hiroyuki Hasemi, Takashi Kamiyama, Ken Nakajima

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (650 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300615/pdf?md5=2149c1e0f8694a2bc823eab6d7a40e7e&pid=1-s2.0-S1875389217300615-main.pdf)

Scientific applications

[Neutron Microtomography of MgB2 Superconducting Multifilament Wire](http://www.sciencedirect.com/science/article/pii/S1875389217300627)

Pages 95-99

Pavel Trtik, Christian Scheuerlein, Patrick Alknes, Michael Meyer, Florian Schmid, Eberhard Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1073 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300627/pdf?md5=54378fd347add4bc19f59a170b59550c&pid=1-s2.0-S1875389217300627-main.pdf)

[Neutron Tomography and X-ray Tomography as Tools for the Morphological Investigation of Non-mammalian Synapsids](http://www.sciencedirect.com/science/article/pii/S1875389217300639)

Pages 100-108

Michael Laaß, Burkhard Schillinger, Ingmar Werneburg

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (451 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300639/pdf?md5=035c2c5b05893db6e6e45cd63b7ec18a&pid=1-s2.0-S1875389217300639-main.pdf)

[Exploring Hominin and Non-hominin Primate Dental Fossil Remains with Neutron Microtomography](http://www.sciencedirect.com/science/article/pii/S1875389217300640)

Pages 109-115

Clément Zanolli, Burkhard Schillinger, Amélie Beaudet, Ottmar Kullmer, Roberto Macchiarelli, Lucia Mancini, Friedemann Schrenk, Claudio Tuniz, Vladimira Vodopivec

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (639 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300640/pdf?md5=f23ce16ca0291c3701869a2653a6eb58&pid=1-s2.0-S1875389217300640-main.pdf)

[Archaeometric Investigations on Manufacturing Processes in Ancient Cultures with the Neutron Imaging Station DINGO at ANSTO](http://www.sciencedirect.com/science/article/pii/S1875389217300652)

Pages 116-122

Filomena Salvemini, Vladimir Luzin, Francesco Grazzi, Scott Olsen, Kenneth Sheedy, Sue Gatenby, Min-Jung Kim, Ulf Garbe

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (673 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300652/pdf?md5=0fb29f5d74cd4ca5fdb498ddbc7a4ae8&pid=1-s2.0-S1875389217300652-main.pdf)

[The Early Stage of Neutron Tomography for Cultural Heritage Study in Thailand](http://www.sciencedirect.com/science/article/pii/S1875389217300664)

Pages 123-127

S. Khaweerat, W. Ratanatongchai, S.Wonglee, B. Schillinger

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (677 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300664/pdf?md5=dd3a75426f8553b44ef1a6c64969d55e&pid=1-s2.0-S1875389217300664-main.pdf)

[Crystallographic Analysis of a Japanese Sword by using Bragg Edge Transmission Spectroscopy](http://www.sciencedirect.com/science/article/pii/S1875389217300676)

Pages 128-133

Yoshinori Shiota, Hiroyuki Hasemi, Yoshiaki Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1203 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300676/pdf?md5=e1e3c01b984cb37bb87dc448a41d89fe&pid=1-s2.0-S1875389217300676-main.pdf)

[Gemmological Investigations on Pearls and Emeralds using Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300688)

Pages 134-139

D. Mannes, C. Hanser, M. Krzemnicki, R.P. Harti, I. Jerjen, E. Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1704 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300688/pdf?md5=6ba7437a7f981c31218d7904ef88885d&pid=1-s2.0-S1875389217300688-main.pdf)

Facilities and Instrumentation

[Status and Perspectives of Neutron Imaging Facilities](http://www.sciencedirect.com/science/article/pii/S187538921730069X)

Pages 140-147

E. Lehmann, P. Trtik, D. Ridikas

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (876 K)](http://www.sciencedirect.com/science/article/pii/S187538921730069X/pdf?md5=d23a845dc903d11cbdf7cea90ee3e2aa&pid=1-s2.0-S187538921730069X-main.pdf)

[The Thermal Neutron Beam Option for NECTAR at MLZ](http://www.sciencedirect.com/science/article/pii/S1875389217300706)

Pages 148-153

M.J. Mühlbauer, T. Bücherl, C. Genreith, M. Knapp, M. Schulz, S. Söllradl, F.M. Wagner, H. Ehrenberg

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (849 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300706/pdf?md5=b171efc9bbbd9756225d32e51956acf7&pid=1-s2.0-S1875389217300706-main.pdf)

[Neutron Imaging Development at China Academy of Engineering Physics (CAEP)](http://www.sciencedirect.com/science/article/pii/S1875389217300718)

Pages 154-161

Hang Li, Sheng Wang, Chao Cao, Heyong Huo, Bin Tang

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1783 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300718/pdf?md5=d763ff16cdfca62aba0fb244dfd1d950&pid=1-s2.0-S1875389217300718-main.pdf)

[Recent Progress of Radiography and Tomography at the Energy-resolved Neutron Imaging System RADEN](http://www.sciencedirect.com/science/article/pii/S187538921730072X)

Pages 162-166

Y. Matsumoto, M. Segawa, T. Kai, T. Shinohara, T. Nakatani, K. Oikawa, K. Hiroi, Y.H. Su, H. Hayashida, J.D. Parker, S.Y. Zhang, Y. Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1118 K)](http://www.sciencedirect.com/science/article/pii/S187538921730072X/pdf?md5=1c4edf4fa3955055e467a9f284893463&pid=1-s2.0-S187538921730072X-main.pdf)

[Status of the Imaging Facility INUS at INR](http://www.sciencedirect.com/science/article/pii/S1875389217300731)

Pages 167-174

Marin Dinca, C. Iorgulis, D. Barbos, L.D. Mitrea

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1229 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300731/pdf?md5=89dd9daa10a00bf59bf00683fcb75203&pid=1-s2.0-S1875389217300731-main.pdf)

[Thermal Neutron Radiography using a High-flux Compact Neutron Generator](http://www.sciencedirect.com/science/article/pii/S1875389217300743)

Pages 175-183

Michael Taylor, Evan Sengbusch, Chris Seyfert, Eli Moll, Ross Radel

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1417 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300743/pdf?md5=5d551cfc941adb67df44ada1af5c5c6c&pid=1-s2.0-S1875389217300743-main.pdf)

[Wolter Mirrors for Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300755)

Pages 184-189

Huarui Wu, Boris Khaykovich, Xuewu Wang, Daniel S. Hussey

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1890 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300755/pdf?md5=f35e2aea2855d80478cfe4782153a18f&pid=1-s2.0-S1875389217300755-main.pdf)

[Design Feasibility Study for a Demultiplexer Miniaturized for Microtomographic Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300767)

Pages 190-195

Udo Lang, Pavel Trtik, Manuela Notter, Jan Hovind, Eberhard H. Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (680 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300767/pdf?md5=26ae014634b870830d14d1bbf3cd0af2&pid=1-s2.0-S1875389217300767-main.pdf)

[Quadruple Axis Neutron Computed Tomography](http://www.sciencedirect.com/science/article/pii/S1875389217300779)

Pages 196-199

Burkhard Schillinger, Dominik Bausenwein

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (459 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300779/pdf?md5=dff79b9b2f0284f8f64deffe86d22ced&pid=1-s2.0-S1875389217300779-main.pdf)

[Design and Applications of a Climatic Chamber for in-situ Neutron Imaging Experiments](http://www.sciencedirect.com/science/article/pii/S1875389217300780)

Pages 200-207

David Mannes, Florian Schmid, Timon Wehmann, Eberhard Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1763 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300780/pdf?md5=8847d26f36b0bb7c8360b42d03f36bbf&pid=1-s2.0-S1875389217300780-main.pdf)

[Experiences with a New Shielding Material](http://www.sciencedirect.com/science/article/pii/S1875389217300792)

Pages 208-216

T. Bücherl, E. Calzada, S.Q. Liu, W. Stöwer, F. Kortmann, H. Größlhuber, Ch. Lierse von Gostomski

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1126 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300792/pdf?md5=6ff081c52696d0c5858d3d1fdc2ce8e6&pid=1-s2.0-S1875389217300792-main.pdf)

[Experimental Evaluation of Neutron Absorption Grating Fabricated by Oblique Evaporation of Gadolinium for Phase Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300809)

Pages 217-223

Yoshichika Seki, Takenao Shinohara, Wakana Ueno, Joseph D. Parker, Tetsuo Samoto, Wataru Yashiro, Atsushi Momose

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1123 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300809/pdf?md5=8befc00f109ab35480d5716c94bd64ae&pid=1-s2.0-S1875389217300809-main.pdf)

[A Neutron Detector with Submicron Spatial Resolution using Fine-grained Nuclear Emulsion](http://www.sciencedirect.com/science/article/pii/S1875389217300810)

Pages 224-230

N. Naganawa, S. Awano, M. Hino, M. Hirose, K. Hirota, H. Kawahara, M. Kitaguchi, K. Mishima, T. Nagae, H.M. Shimizu, S. Tasaki, A. Umemoto

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (447 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300810/pdf?md5=f42e3485d57abcea4eede3e7082f9ca0&pid=1-s2.0-S1875389217300810-main.pdf)

[Development of an in-situ SEOP 3He Neutron Spin Filter for Magnetic Imaging Techniques](http://www.sciencedirect.com/science/article/pii/S1875389217300822)

Pages 231-236

H. Hayashida, K. Hiroi, T. Oku, H. Kira, K. Sakai, T. Shinohara, T. Kai, J.D. Parker, Y. Matsumoto, S.Y. Zhang, T. Ino, M. Ohkawara, K. Kakurai

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (947 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300822/pdf?md5=f39d597a4ca6f0bc1875a1597440b457&pid=1-s2.0-S1875389217300822-main.pdf)

[Performance of Self-developing Radiography Films in LVR-15's Neutron Beams](http://www.sciencedirect.com/science/article/pii/S1875389217300834)

Original Research Article

Pages 237-242

Jaroslav Soltes, Ladislav Viererbl, Vit Klupak, Miroslav Vins, Bozena Michalcova

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1342 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300834/pdf?md5=b79d4fc8c682f35f8c3decf199619888&pid=1-s2.0-S1875389217300834-main.pdf)

[The Signal Chain - how the Removal of an Image Intensifier at the AERE Reactor in Bangladesh Improves Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300846)

Pages 243-249

Burkhard Schillinger, Sudipta Saha

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (880 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300846/pdf?md5=60dbbc6e57a239339ae413943b3799ac&pid=1-s2.0-S1875389217300846-main.pdf)

**Methods**

[Methodical Progress in Neutron Imaging at PSI](http://www.sciencedirect.com/science/article/pii/S1875389217300858)

Pages 250-257

E. Lehmann, M. Raventos, R.P. Harti, P. Trtik, A. Kaestner, D. Mannes, C. Grünzweig

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1060 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300858/pdf?md5=5e70dad2d62d83920e1cebd48d9a890a&pid=1-s2.0-S1875389217300858-main.pdf)

[Samples to Determine the Resolution of Neutron Radiography and Tomography](http://www.sciencedirect.com/science/article/pii/S187538921730086X)

Pages 258-265

A.P. Kaestner, Z. Kis, M.J. Radebe, D. Mannes, J. Hovind, C. Grünzweig, N. Kardjilov, E.H. Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1803 K)](http://www.sciencedirect.com/science/article/pii/S187538921730086X/pdf?md5=c2b1bec1966a5ce748887465c50bc56b&pid=1-s2.0-S187538921730086X-main.pdf)

[Which Resolution can be Achieved in Practice in Neutron Imaging Experiments? – A General View and Application on the Zr - ZrH2 and ZrO2 - ZrN Systems](http://www.sciencedirect.com/science/article/pii/S1875389217300871)

Pages 266-274

Mirco Grosse, Nikolay Kardjilov

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (533 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300871/pdf?md5=277f0c4ee80cc5dcf2cbbf8f16886e98&pid=1-s2.0-S1875389217300871-main.pdf)

[A Method for Neutron Scattering Quantification and Correction Applied to Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300883)

Pages 275-281

Marc Raventos, Ralph P. Harti, Eberhard Lehmann, Christian Grünzweig

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (958 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300883/pdf?md5=88d5a7f0ed1f863c380ce213b0d167d3&pid=1-s2.0-S1875389217300883-main.pdf)

[Edge Enhancement Investigations by Means of Experiments and Simulations](http://www.sciencedirect.com/science/article/pii/S1875389217300895)

Pages 282-289

E. Lehmann, M. Schulz, Y. Wang, A. Tartaglione

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (937 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300895/pdf?md5=8a20ae58eaff97a67163b2a04b2b5543&pid=1-s2.0-S1875389217300895-main.pdf)

[Sparse-view Reconstruction of Dynamic Processes by Neutron Tomography](http://www.sciencedirect.com/science/article/pii/S1875389217300901)

Pages 290-298

Hu Wang, Anders Kaestner, Yubin Zou, Yuanrong Lu, Zhiyu Guo

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (987 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300901/pdf?md5=b72718e72a402fa98c6bdd5272c99c67&pid=1-s2.0-S1875389217300901-main.pdf)

[Calibration and Correction Method of the Deflection Angle of Rotation Axis Projection on Neutron Tomography](http://www.sciencedirect.com/science/article/pii/S1875389217300913)

Pages 299-305

Zhilong Ji, Qiang Lin, Xu Han, Jiawei Liu, Wen Zhang, Min Yang

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (4849 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300913/pdf?md5=2c4e3dc733979378013cf9d7e06c3645&pid=1-s2.0-S1875389217300913-main.pdf)

[Reliability Estimation of Neutron Resonance Thermometry Using Tantalum and Tungsten](http://www.sciencedirect.com/science/article/pii/S1875389217300925)

Pages 306-313

Tetsuya Kai, Kosuke Hiroi, Yuhua Su, Takenao Shinohara, Joseph D. Parker, Yoshihiro Matsumoto, Hirotoshi Hayashida, Mariko Segawa, Takeshi Nakatani, Kenichi Oikawa, Shuoyuan Zhang, Yoshiaki Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1098 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300925/pdf?md5=08d194c318860acbb001f443ad90e661&pid=1-s2.0-S1875389217300925-main.pdf)

[Bimodal Imaging at ICON Using Neutrons and X-rays](http://www.sciencedirect.com/science/article/pii/S1875389217300937)

Pages 314-321

A.P. Kaestner, J. Hovind, P. Boillat, C. Muehlebach, C. Carminati, M. Zarebanadkouki, E.H. Lehmann

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1097 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300937/pdf?md5=69b08715af0722c68bbdfae3799d24bc&pid=1-s2.0-S1875389217300937-main.pdf)

**Software & Simulation**

[Further Improvement of the RITS Code for Pulsed Neutron Bragg-edge Transmission Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217300949)

Pages 322-330

H. Sato, K. Watanabe, K. Kiyokawa, R. Kiyanagi, K.Y. Hara, T. Kamiyama, M. Furusaka, T. Shinohara, Y. Kiyanagi

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (729 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300949/pdf?md5=7ed1d187e6b0423b58e23efa147324df&pid=1-s2.0-S1875389217300949-main.pdf)

[Computational Analysis Supporting the Design of a New Beamline for the Mines Neutron Radiography Facility](http://www.sciencedirect.com/science/article/pii/S1875389217300950)

Pages 331-339

C. Wilson, J. King

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (561 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300950/pdf?md5=418bbd6d2440f2ea5db5d90da89518b2&pid=1-s2.0-S1875389217300950-main.pdf)

[Study of Signal to Noise Ratio of Coded Source Neutron Imaging with Analysis Method and Numerical Simulation](http://www.sciencedirect.com/science/article/pii/S1875389217300962)

Pages 340-347

Sheng Wang, Hang Li, Chao Cao, Yang Wu, Heyong Huo, Bin Tang, Yubin Zou, Yuanrong Lu, Guoyou Tang, Zhiyu Guo

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (420 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300962/pdf?md5=752ae780ec2de5b31d00a5c0fdbb8a66&pid=1-s2.0-S1875389217300962-main.pdf)

[A Freeware Path to Neutron Computed Tomography](http://www.sciencedirect.com/science/article/pii/S1875389217300974)

Pages 348-353

Burkhard Schillinger, Aaron E. Craft

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (708 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300974/pdf?md5=834e537569b1a7a3f46b8a844c63b87c&pid=1-s2.0-S1875389217300974-main.pdf)

[A Study on Inhomogeneous Neutron Intensity Distribution Origin from Neutron Guide Transportation](http://www.sciencedirect.com/science/article/pii/S1875389217300986)

Pages 354-360

Yu Wang, Guohai Wei, Hongli Wang, Yuntao Liu, Linfeng He, Kai Sun, Songbai Han, Dongfeng Chen

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1308 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300986/pdf?md5=13dd9eb80599fffc3b85313b7734d324&pid=1-s2.0-S1875389217300986-main.pdf)

[Monte Carlo Simulation for Designing Collimator of the Neutron Radiography Facility in Malaysia](http://www.sciencedirect.com/science/article/pii/S1875389217300998)

Pages 361-368

Rafhayudi Jamro, Nikolay Kardjilov, Mohamad HairieRabir, Mohamed Rawi Mohd Zain, Abdul Aziz Mohamed, NurSazwani Mohd Ali, Faridah Idris, Megat Harun Al Rashid Megat Ahmad, Khairiah Yazid, Hafizal Yazid, Azraf Azman, Mohd Rizal Mamat

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (1077 K)](http://www.sciencedirect.com/science/article/pii/S1875389217300998/pdf?md5=8d169398e3686455f6db5ce5b336fa2e&pid=1-s2.0-S1875389217300998-main.pdf)

[Optimization of Moderator Size of Thermal and Epithermal Neutron Source Based on a Compact Accelerator for Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389217301001)

Pages 369-375

Hiroyuki Hasemi, Takashi Kamiyama, Hirotaka Sato, Koichi Kino, Yoshiaki Kiyanagi, Ken Nakajima

[Abstract](http://www.sciencedirect.com/science/journal/18753892/88?sdc=1)

[PDF (244 K)](http://www.sciencedirect.com/science/article/pii/S1875389217301001/pdf?md5=1cccbef0807da7c3f4fa927ef6f0c092&pid=1-s2.0-S1875389217301001-main.pdf)

[Author Index](http://www.sciencedirect.com/science/article/pii/S1875389217301098)

Pages 376-382

[PDF (215 K)](http://www.sciencedirect.com/science/article/pii/S1875389217301098/pdfft?md5=63d3ee24f574cef3cfd0c76e8b80f7c6&pid=1-s2.0-S1875389217301098-main.pdf)

[**Radiation Physics and Chemistry**](http://www.sciencedirect.com/science/journal/0969806X) **(1)**

[Deterministic simulation of thermal neutron radiography and tomography](http://www.sciencedirect.com/science/article/pii/S0969806X16300378)

Rajarshi Pal Chowdhury, Xin Liu

*Radiation Physics and Chemistry, Volume 122, May 2016, Pages 100-107*

[**Scientific Drilling**](https://www.scientific-drilling.net/) **(1)**

[A comparison of the use of X-ray and neutron tomographic core scanning techniques for drilling projects: insights from scanning core recovered during the Alpine Fault Deep Fault](https://sd.copernicus.org/articles/22/35/2017/) Drilling Project

Williams, J. N., Bevitt, J. J., and Toy, V. G.:

*Sci. Dril., 22, 35–42, https://doi.org/10.5194/sd-22-35-2017*

[**Scientific Reports**](http://www.sciencedirect.com/science/journal/09601481/91/supp/C) **(3)**

N[on-Destructive Study of Bulk Crystallinity and Elemental Composition of Natural Gold Single Crystal Samples by Energy-Resolved Neutron Imaging.](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Feuropepmc.org%252Fabstract%252FMED%252F28102285%26collectionCode%3DUKPMC-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3Dfd20e3a9b39df210e5b07c501aa5b10b7417f6d45347e7c9fcecf9e2d7b76060)

Tremsin AS; Rakovan J; Shinohara T; Kockelmann W; Losko AS; Vogel SC.

*2017-01 Scientific reports Volume: 7 Pages: 40759 PMID: 28102285*

*DOI: 10.1038/srep40759*

S[ub-pixel correlation length neutron imaging: Spatially resolved scattering information of microstructures on a macroscopic scale.](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Feuropepmc.org%252Fabstract%252FMED%252F28303923%26collectionCode%3DUKPMC-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D398b1e812d6eb97d086ed7899623667effbd9599a96dcb491ec452d85f069d2b)

Harti RP; Strobl M; Betz B; Jefimovs K; Kagias M; Grünzweig C.

*2017-03 Scientific reports Volume: 7 Pages: 44588 PMID: 28303923*

*DOI: 10.1038/srep44588*

[Real-time Crystal Growth Visualization and Quantification by Energy-Resolved Neutron Imaging.](https://worldwidescience.org/wws/desktop/en/service/link/track?searchId=18748914-e01a-42be-a72f-e8fe2d2ac247&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=https%3A%2F%2Fworldwidescience.org%2Fwws%2Fdesktop%2Fen%2Fservice%2Flink%2Ftrack%3FredirectUrl%3Dhttp%253A%252F%252Feuropepmc.org%252Fabstract%252FMED%252F28425461%26collectionCode%3DUKPMC-EN%26searchId%3D18748914-e01a-42be-a72f-e8fe2d2ac247%26type%3DRESULT%26signature%3D6ef648e498da047a7d155aaac22fbd69cac46d0eb96745a43920b1efe9e0cf75)

Tremsin AS; Perrodin D; Losko AS; Vogel SC; Bourke MAM; Bizarri GA; Bourret ED.

*2017-04 Scientific Reports Volume: 7 Pages: 46275 PMID: 28425461*

*DOI: 10.1038/srep46275*

**2016**

Total number of papers listed: 45

[**Applied Physics Letters**](http://scitation.aip.org/content/aip/journal/apl)  **(1)**

[In-situ visualization of stress-dependent bulk magnetic domain formation by neutron grating interferometry](http://scitation.aip.org/content/aip/journal/apl/108/1/10.1063/1.4939196)

Betz B, Rauscher P, Harti RP, Schäfer R, Van Swygenhoven H, Kaestner A, Hovind J, Lehmann E, Grünzweig C

*Applied Physics Letters 108, 012405 (2016)*

[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/09698043/107/supp/C) **(3)**

[A novel fast-neutron tomography system based on a plastic scintillator array and a compact D-D neutron generator](http://www.sciencedirect.com/science/article/pii/S0969804315301858)

[Adams R](http://europepmc.org/search?page=1&query=AUTH:%22Adams+R%22&restrict=All+results) , [Zboray R](http://europepmc.org/search?page=1&query=AUTH:%22Zboray+R%22&restrict=All+results) , [Prasser HM](http://europepmc.org/search?page=1&query=AUTH:%22Prasser+HM%22&restrict=All+results)

*Appl. Radiat. Isot. 107:1-7, 2016*

[3D imaging using combined neutron-photon fan-beam tomography: A Monte Carlo study](http://www.sciencedirect.com/science/article/pii/S0969804316300823)

[Hartman J](http://europepmc.org/search?page=1&query=AUTH:%22Hartman+J%22&restrict=All+results) , [Yazdanpanah AP](http://europepmc.org/search?page=1&query=AUTH:%22Yazdanpanah+AP%22&restrict=All+results) , [Barzilov A](http://europepmc.org/search?page=1&query=AUTH:%22Barzilov+A%22&restrict=All+results) , [Regentova E](http://europepmc.org/search?page=1&query=AUTH:%22Regentova+E%22&restrict=All+results)

[*Appl Radiat Isot.*](http://www.ncbi.nlm.nih.gov/pubmed/25481677) *111:110-116, May 2016*

[Quantitative discrimination between oil and water in drilled bore cores via Fast-Neutron Resonance Transmission Radiography](http://www.sciencedirect.com/science/article/pii/S0969804316306200)

D. Vartsky, M.B. Goldberg, V. Dangendorf, I. Israelashvili, I. Mor, D. Bar, K. Tittelmeier, M. Weierganz, B. Bromberger, A. Breskin

*Appl. Radiat. Isot. 118: 87-94, Dec 2016*

[**Arxiv.org**](file:///C%3A%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5Carxiv.org) **(3)**

[Quantitative discrimination between oil and water in drilled bore cores via fast-neutron resonance transmission radiography](https://arxiv.org/ftp/arxiv/papers/1602/1602.06533.pdf)

D. Vartsky, M. B. Goldberg, V. Dangendorf, I. Israelashvili, I. Mor, D. Bar, K. Tittelmeier, M. Weierganz, A. Breskin

*ArKiv 1602.06533.pdf*

[A physical zero-knowledge object comparison system for nuclear warhead verification](https://arxiv.org/ftp/arxiv/papers/1602/1602.07717.pdf)

Sébastien Philippe, Robert J. Goldston, Alexander Glaser, and Francesco d’Errico

*ArKiv 1602.07717.pdf*

[Statistical Uncertainty in Quantitative Neutron Radiography](http://arxiv.org/pdf/1603.06849v1.pdf)

 Florian M. Piegsa and Anders P. Kaestner

*ArKiv 1603.06849v1.pdf*

[**Construction and Building Materials**](http://www.sciencedirect.com/science/journal/09500618/110/supp/C)  **(1)**

[Using neutron radiography to assess water absorption in air entrained mortar](http://www.sciencedirect.com/science/article/pii/S0950061816300605)

[Wenting Li](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Mohammad Pour-Ghaz](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Pavel Trtik](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Mateusz Wyrzykowski](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Beat Münch](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Pietro Lura](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Peter Vontobel](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [Eberhard Lehmann](http://www.sciencedirect.com/science/article/pii/S0950061816300605), [W. Jason Weiss](http://www.sciencedirect.com/science/article/pii/S0950061816300605)

[*Construction and Building Materials*](http://www.sciencedirect.com/science/journal/09500618)*,* [*Volume 110*](http://www.sciencedirect.com/science/journal/09500618/110/supp/C)*, 1 May 2016, Pages 98–105*

[**Electrochimica Acta**](http://www.sciencedirect.com/science/journal/00134686/203/supp/C)  **(3)**

[Nitrogen Blanketing and Hydrogen Starvation in Dead-Ended-Anode Polymer Electrolyte Fuel Cells Revealed by Hydro-Electro-Thermal Analysis](http://www.sciencedirect.com/science/article/pii/S0013468616308064)

[Quentin Meyer](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Sean Ashton](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Sergio Torija](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Chris Gurney](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Pierre Boillat](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Magali Cochet](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Erik Engebretsen](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Donal P. Finegan](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Paul Adcock](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Paul R. Shearing](http://www.sciencedirect.com/science/article/pii/S0013468616308064), [Dan J.L. Brett](http://www.sciencedirect.com/science/article/pii/S0013468616308064)

[*Electrochimica Acta*](http://www.sciencedirect.com/science/journal/00134686)[*Volume 203*](http://www.sciencedirect.com/science/journal/00134686/203/supp/C)*, 10 June 2016, Pages 198–205*

[Ex Situ and In Situ Neutron Imaging of Enzymatic Electrochemical Cells](http://dx.doi.org/10.1016/j.electacta.2016.07.046)

Looney E.E., Nelson G.J., van Zandt Z.K., Ulyanova Y., Singhal S., Santodonato L., Bilheux H.Z.,

*Electrochimica Acta,* published on-line July 2016

[Effect of gas diffusion layer properties on water distribution across air-cooled, open-cathode polymer electrolyte fuel cells: A combined ex-situ X-ray tomography and in-operando neutron imaging study](http://www.sciencedirect.com/science/article/pii/S0013468616313858)

Quentin Meyer, Sean Ashton, Pierre Boillat, Magali Cochet, Erik Engebretsen, Donal P. Finegan, Xuekun Lu, Josh J. Bailey, Noramalina Mansor, Rema Abdulaziz, Oluwadamilola O. Taiwo, Rhodri Jervis, Sergio Torija, Paul Benson, Simon Foster, Paul Adcock, Paul R. Shearing, Dan J.L. Brett

*Electrochimica Acta, Volume 211, 1 September 2016, Pages 478-487*

[**Electrochimica Acta Part B: Atomic Spectroscopy**](http://www.sciencedirect.com/science/journal/05848547) **(1)**

[Investigating Early/Middle Bronze Age copper and bronze axes by micro X-ray fluorescence spectrometry and neutron imaging techniques](http://www.sciencedirect.com/science/article/pii/S0584854716300611)

Elin Figueiredo, Marco A. Stanojev Pereira, Filipa Lopes, José G. Marques, Joana P. Santos, M. Fátima Araújo, Rui J.C. Silva, João C. Senna-Martinez

*Spectrochimica Acta Part B: Atomic Spectroscopy, Volume 122, 1 August 2016, Pages 15-22*

[**Environmental and Experimental Botany**](http://www.sciencedirect.com/science/journal/00988472/127/supp/C) **(2)**

[Root growth and Zn uptake of three common crop plants in response to heterogeneity in soil texture and Zn distribution](http://www.sciencedirect.com/science/article/pii/S0098847216300545)

[Huifang Ma](http://www.sciencedirect.com/science/article/pii/S0098847216300545), [Michael W.H. Evangelou](http://www.sciencedirect.com/science/article/pii/S0098847216300545), [Peter Vontobel](http://www.sciencedirect.com/science/article/pii/S0098847216300545), [Rainer Schulin](http://www.sciencedirect.com/science/article/pii/S0098847216300545)

[*Environmental and Experimental Botany*](http://www.sciencedirect.com/science/journal/00988472)*,* [*Volume 127*](http://www.sciencedirect.com/science/journal/00988472/127/supp/C)*, July 2016, Pages 45–54*

[Effect of uneven root allocation on shoot Zn uptake by crop plants growing on soil with heterogeneous P and Zn distribution](http://www.sciencedirect.com/science/article/pii/S0098847216301228)

[Huifang Ma](http://www.sciencedirect.com/science/article/pii/S0098847216301228), [Michael W.H. Evangelou](http://www.sciencedirect.com/science/article/pii/S0098847216301228), [Susan Tandy](http://www.sciencedirect.com/science/article/pii/S0098847216301228), [Bernd Felderer](http://www.sciencedirect.com/science/article/pii/S0098847216301228), [Peter Vontobel](http://www.sciencedirect.com/science/article/pii/S0098847216301228), [Rainer Schulin](http://www.sciencedirect.com/science/article/pii/S0098847216301228)

*Environmental and Experimental Botany, Volume 130, October 2016, Pages 226-232*

[**International Journal of Hydrogen Energy**](http://www.sciencedirect.com/science/journal/03603199/41/31)  **(1)**

[Anisotropic storage medium development in a full-scale, sodium alanate-based, hydrogen storage system](http://dx.doi.org/10.1016/j.ijhydene.2016.05.057)

Jorgensen S.W., Johnson T.A., Payzant E.A., Bilheux H.Z.,

*International Journal of Hydrogen Energy,* [*Volume 41, Issue 31*](http://www.sciencedirect.com/science/journal/03603199/41/31)*, 17 August 2016, Pages 13557–13574*

[**International Journal of Impact Engineering**](http://www.sciencedirect.com/science/journal/0734743X) **(1)**

[High-resolution X-ray and neutron computed tomography of partially saturated granular materials subjected to projectile penetration](http://www.sciencedirect.com/science/article/pii/S0734743X15002389)

Felix Hoyean Kim, Dayakar Penumadu, Nikolay Kardjilov, Ingo Manke

*International Journal of Impact Engineering, Volume 89, March 2016, Pages 72-82*

[**Journal of Applied Crystallography**](http://journals.iucr.org/j/) **(2)**

[Neutron imaging using a conventional small-angle neutron scattering instrument](http://journals.iucr.org/j/issues/2016/03/00/ks5506/index.html)

C. D. Dewhurst and I. Grillo

*J. Appl. Cryst. (2016). 49, 736–742*

[In situ diagnostics of the crystal-growth process through neutron imaging: application to scintillators](http://journals.iucr.org/j/issues/2016/03/00/ks5504/index.html)

A.S. Tremsin, M.G. Makowska, D. Perrodin, T. Shalapska, I.V. Khodyuk, P. Trtik, P. Boillat, S.C. Vogel, A.S. Losko, M. Strobl, L. Theil Kuhn, G.A. Bizarri, E.D. Bourret-Courchesnes

*J. Appl. Cryst. (2016). 49, 743–755*

[**Journal of Chemical Physics**](http://scitation.aip.org/content/aip/journal/jcp;jsessionid=8FooNzM9Cu4VILZmuZPx6t9m.x-aip-live-02) **(1)**

[Solvent and solute ingress into hydrogels resolved by a combination of imaging techniques](http://scitation.aip.org/content/aip/journal/jcp/144/20/10.1063/1.4950954)

Wagner D, Burbach J, Grünzweig C, Hartmann S, Lehmann E, Egelhaaf SU, Hermes HE

*The Journal of Chemical Physics 144, 204903 (2016)*

[**Journal of Colloid and Interface Science**](http://www.sciencedirect.com/science/journal/00219797/471/supp/C) **(1)**

[Absorption of impinging water droplet in porous stones](http://www.sciencedirect.com/science/article/pii/S0021979716301448)

Lee JB, Radu AI, Vontobel P, Derome D, Carmeliet J

*Journal of Colloid and Interface Science, 471, 59 (2016)*

[**Journal of Cultural Heritage**](http://www.sciencedirect.com/science/journal/02608774) **(1)**

[Investigation of ammonium oxalate diffusion in carbonatic substrates by neutron tomography](http://www.sciencedirect.com/science/article/pii/S1296207415001934)

Claudia Conti, Chiara Colombo, Giulia Festa, Jan Hovind, Enrico Perelli Cippo, Elena Possenti, Marco Realini

*Journal of Cultural Heritage, Volume 19, May–June 2016, Pages 463-466*

[**Journal of Food Engineering**](http://www.sciencedirect.com/science/journal/12962074) **(1)**

[Probing inside fruit slices during convective drying by quantitative neutron imaging](http://www.sciencedirect.com/science/article/pii/S026087741630022X)

Thijs Defraeye, Bart Nicolaï, David Mannes, Wondwosen Aregawi, Pieter Verboven, Dominique Derome

*Journal of Food Engineering, Volume 178, June 2016, Pages 198-202*

[**Journal of Instrumentation**](http://iopscience.iop.org/journal/1748-0221) **(3)**

# [Determination of optimal imaging parameters for the reconstruction of a nuclear fuel assembly using limited angle neutron tomography](http://iopscience.iop.org/article/10.1088/1748-0221/11/01/C01016)

M.I. Abir, F.F. Islam, A. Craft, W.J. Williams, D.M. Wachs, D.L. Chichester, M.K. Meyer and H.K. Lee

[*Journal of Instrumentation*](http://iopscience.iop.org/journal/1748-0221)*,*[*Volume 11*](http://iopscience.iop.org/1748-0221/11)*,*[*January 2016*](http://iopscience.iop.org/1748-0221/11/01)

# [Neutron radiography as a non-destructive method for diagnosing neutron converters for advanced thermal neutron detectors](http://iopscience.iop.org/article/10.1088/1748-0221/11/03/C03033)

A. Muraro, G. Albani, E. Perelli Cippo, G. Croci, G. Angella, J. Birch, C. Cazzaniga, R. Caniello, F. Dell'Era, F. Ghezzi, G. Grosso, R. Hall-Wilton, C. Höglund, L. Hultman, S. Schimdt, L. Robinson, M. Rebai, G. Salvato, D. Tresoldi, C. Vasi and M. Tardocchi

[*Journal of Instrumentation*](http://iopscience.iop.org/journal/1748-0221)*,*[*Volume 11*](http://iopscience.iop.org/1748-0221/11)*,*[*March 2016*](http://iopscience.iop.org/1748-0221/11/03)

[Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS](http://iopscience.iop.org/article/10.1088/1748-0221/11/03/C03014)

T. Minniti, W. Kockelmann, G. Burca, J.F. Kelleher, S. Kabra, S.Y. Zhang, D.E. Pooley, E.M. Schooneveld, Q. Mutamba, J. Sykora, N.J. Rhodes, F.M. Pouzols, J.B. Nightingale, F. Aliotta, L.M. Bonaccorsi, R. Ponterio, G. Salvato, S. Trusso, C. Vasi, A.S. Tremsin, G. Gorini

*Journal of Instrumentation, Volume 11, March 2016*

[**Journal of Power Sources**](http://www.sciencedirect.com/science/journal/03787753/340) **(1)**

[In situ visualization of the electrolyte solvent filling process by neutron radiography](http://www.sciencedirect.com/science/article/pii/S0378775316311995)

Knoche, Thomas ; Zinth, Veronika ; Schulz, Michael ; Schnell, Joscha ; Gilles, Ralph ; Reinhart, Gunther

*Journal of Power Sources, 1 November 2016, Vol.331, pp.267-276*

[**Journal of Taibah University for Science**](http://www.sciencedirect.com/science/journal/16583655) **(1)**

[Development and characterization of a neutron tomography system for a Research Reactor](http://www.sciencedirect.com/science/article/pii/S1658365515000540)

Waleed Abd el Bar, Imbaby I. Mahmoud, Hussein A. Konber

*Journal of Taibah University for Science, Volume 10, Issue 2, March 2016, Pages 195-204*

[**Materials**](http://www.mdpi.com/journal/materials) **(1)**

[Neutron Radiography Based Visualization and Profiling of Water Uptake in (Un)cracked and Autonomously Healed Cementitious Materials](http://www.mdpi.com/1996-1944/9/5/311/htm)

Philip Van den Heede, Bjorn Van Belleghem, Natalia Alderete, Kim Van Tittelboom and Nele De Belie

*Materials, 9(5), 311, 2016*

[**Materials Characterization**](http://www.mdpi.com/journal/materials) **(1)**

[Neutron tomographic analysis: Material characterization of silver and electrum coins from the 6th and 5th centuries BCE](http://www.sciencedirect.com/science/article/pii/S1044580316301565)

F. Salvemini, S.R. Olsen, V. Luzin, U. Garbe, J. Davis, T. Knowles, K. Sheedy

*Materials Characterization, Volume 118, August 2016, Pages 175-185*

[**MethodsX**](http://www.sciencedirect.com/science/journal/22150161/3/supp/C) **(2)**

[Rotation axis demultiplexer enabling simultaneous computed tomography of multiple samples](http://www.sciencedirect.com/science/article/pii/S2215016116300103)

[Pavel Trtik](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Fabian Geiger](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Jan Hovind](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Udo Lang](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Eberhard Lehmann](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Peter Vontobel](http://www.sciencedirect.com/science/article/pii/S2215016116300103), [Steven Peetermans](http://www.sciencedirect.com/science/article/pii/S2215016116300103)

[*MethodsX*](http://www.sciencedirect.com/science/journal/22150161)[*Volume 3*](http://www.sciencedirect.com/science/journal/22150161/3/supp/C)*, 2016, Pages 320–325*

[100 Hz neutron radiography at the BOA beamline using a parabolic focussing guide](http://www.sciencedirect.com/science/article/pii/S2215016116300346)

Pavel Trtik, Manuel Morgano, Roman Bentz, Eberhard Lehmann

*MethodsX, Volume 3, 2016, Pages 535-541*

[**Microchemical Journal**](http://www.sciencedirect.com/science/journal/0026265X) **(1)**

[Non-invasive archaeometallurgical approach to the investigations of bronze figurines using neutron, laser, and X-ray techniques](http://www.sciencedirect.com/science/article/pii/S0026265X1500260X)

Juri Agresti, Iacopo Osticioli, Maria Cristina Guidotti, Nikolay Kardjilov, Salvatore Siano

*Microchemical Journal, Volume 124, January 2016, Pages 765-774*

[**Minerals**](http://www.mdpi.com/journal/minerals) **(1)**

[Structural Characterization of Iron Meteorites through Neutron Tomography](http://www.mdpi.com/2075-163X/6/1/14)

[Stefano Caporali](http://www.mdpi.com/search?authors=Stefano%20Caporali&orcid=0000-0002-5673-0462), [Francesco Grazzi](http://www.mdpi.com/search?authors=Francesco%20Grazzi&orcid=), Filomena Salvemini, Ulf Garbe, Steven Peetermans and [Giovanni Pratesi](http://www.mdpi.com/search?authors=Giovanni%20Pratesi&orcid=)

*Materials 6(1), 14, 2016*

[**Neutron News**](https://www.tandfonline.com/toc/gnnw20/current) **(1)**

[DINGO – the neutron imaging station at ANSTO: embracing material science, palaeontology, and cultural heritage](https://www.tandfonline.com/doi/abs/10.1080/10448632.2016.1163982?journalCode=gnnw20)

[F. Salvemini](https://www.tandfonline.com/author/Salvemini%2C%2BF),[J. Bevitt](https://www.tandfonline.com/author/Bevitt%2C%2BJ),[K. D. Liss](https://www.tandfonline.com/author/Liss%2C%2BK%2BD) & [U. Garbe](https://www.tandfonline.com/author/Garbe%2C%2BU)

*Neutron News, Volume 27, 2016 -*[*Issue 2*](https://www.tandfonline.com/toc/gnnw20/27/2)

*Pages 14-19 | Published online: 29 Apr 2016*

[**NDT & E International**](http://www.sciencedirect.com/science/journal/09638695) **(1)**

[Simultaneous neutron transmission and diffraction imaging investigations of single crystal nickel-based superalloy turbine blades](http://www.sciencedirect.com/science/article/pii/S0963869515001474)

S. Peetermans, E.H. Lehmann

*NDT & E International, Volume 79, April 2016, Pages 109-113*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002/833/supp/C) **(5)**

[Digital neutron image enhancement based on total variation-based ℓ0 minimization](http://www.sciencedirect.com/science/article/pii/S016890021501219X)

Shuang Qiao, Guanying Bai, Jianing Sun

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 806, 11 January 2016, Pages 154-158*

[Lithium indium diselenide: A new scintillator for neutron imaging](http://dx.doi.org/10.1016/j.nima.2016.05.063)

Lukosi E., Herrera E., Hamm D., Lee K.M., Wiggins B., Trtik P., Penumadu D., Young S., Santodonato L., Bilheux H.Z., Burger A., Matei L., Stowe A.C.,

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *830, 140–149 (2016)*

[LISe pixel detector for neutron imaging](http://dx.doi.org/10.1016/j.nima.2016.07.035)

Herrera E., Hamm D., Wiggins B., Milburn R., Burger A., Bilheux H.Z., Santodonato L., Chvala O., Stowe A.C., Lukosi E.,

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* *833****,*** *142-148 (2016)*

[Fast neutron tomography with real-time pulse-shape discrimination in organic scintillation detectors](http://www.sciencedirect.com/science/article/pii/S016890021630794X)

[Malcolm J. Joyce](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Stewart Agar](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Michael D. Aspinall](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Jonathan S. Beaumont](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Edmund Colley](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Miriam Colling](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Joseph Dykes](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Phoevos Kardasopoulos](http://www.sciencedirect.com/science/article/pii/S016890021630794X), [Katie Mitton](http://www.sciencedirect.com/science/article/pii/S016890021630794X)

*Nuclear Instruments and Methods in Physics Research Section A,* *V.* [*834*](http://www.sciencedirect.com/science/journal/01689002/834/supp/C)*, 21 October 2016, Pages 36–45a Department of Engineering, Lancaster University, Lancaster, Lancashire LA1 4YW, United Kingdom*

* *b Hybrid Instruments Ltd., Gordon Manley Building, Lancaster Environment Centre, Lancaster University, Lancaster LA1 4YW, United Kingdom*

[Microstructured boron foil scintillating G-GEM detector for neutron imaging](http://www.sciencedirect.com/science/article/pii/S0168900216309275)

[Takeshi Fujiwara](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Unico Bautista](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Yuki Mitsuya](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Hiroyuki Takahashi](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Norifumi L. Yamada](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Yoshie Otake](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Atsushi Taketani](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Mitsuru Uesaka](http://www.sciencedirect.com/science/article/pii/S0168900216309275), [Hiroyuki Toyokawa](http://www.sciencedirect.com/science/article/pii/S0168900216309275)

*Nuclear Instruments and Methods in Physics Research Section A,* [*V. 838*](http://www.sciencedirect.com/science/journal/01689002/838/supp/C)*, 1 December 2016, Pages 124–128*

[**Nuclear Instruments and Methods in Physics Research Section B**](http://www.sciencedirect.com/science/journal/0168583X) **(1)**

[Non-destructive investigation of a time capsule using neutron radiography and X-ray fluorescence](http://www.sciencedirect.com/science/article/pii/S0168583X15012021)

B.L. MacDonald, J. Vanderstelt, J. O’Meara, F.E. McNeill

*Nuclear Instruments and Methods in Physics Research Section B, V. 367, 46-52 (2016)*

[**Physical Chemistry Chemical Physics**](http://pubs.rsc.org/en/journals/journalissues/cp#!recentarticles&adv) **(1)**

[Water ingress into a casein film quantified using time-resolved neutron imaging](http://pubs.rsc.org/en/content/articlelanding/2016/cp/c5cp07072d#!divAbstract)

E. Metwalli, H.E. Hermes, E. Calzada, U. Kulozik, S.U. Egelhaaf, P. Mueller-Buschbaum

*Phys.Chem.Chem.Phys, 2016, 18, 6458*

[**Radiation Physics and Chemistry**](http://www.sciencedirect.com/science/journal/09601481/91/supp/C) **(1)**

[Deterministic simulation of thermal neutron radiography and tomography](http://www.sciencedirect.com/science/article/pii/S0969806X16300378)

Rajarshi Pal Chowdhury, Xin Liu

*Radiation Physics and Chemistry, Volume 122, May 2016, Pages 100-107*

[**Renewable Energy**](http://www.sciencedirect.com/science/journal/09601481/91/supp/C) **(1)**

[Analysis and simulation of a blue energy cycle](http://dx.doi.org/10.1016/j.renene.2016.01.044)

Sharma K., Kim Y.H., Yiacoumi S., Gabitto J., Bilheux H.Z., Santodonato L., Mayes R.T., Dai S., Tsouris C.,

*Renewable Energy, 91****,*** *249-260 (2016)*

[**Transport in Porous Media**](http://link.springer.com/journal/11242)  **(1)**

[Transport of Polar and Nonpolar Liquids in Softwood Imaged by Neutron Radiography](http://link.springer.com/article/10.1007/s11242-016-0700-4)

Desmarais G, Gilani M, Vontobel P, Carmeliet J, Derome D

*Transport in Porous Media 113, 383 (2016)*

**2015**

Total number of papers listed: 138

[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/aip/09698043) **(3)**

[Development and characterization of a D-D fast neutron generator for imaging applications](http://www.sciencedirect.com/science/article/pii/S0969804314004084)

[Adams R](http://www.ncbi.nlm.nih.gov/pubmed/?term=Adams%20R%5BAuthor%5D&cauthor=true&cauthor_uid=25481677), [Bort L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Bort%20L%5BAuthor%5D&cauthor=true&cauthor_uid=25481677), [Zboray R](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zboray%20R%5BAuthor%5D&cauthor=true&cauthor_uid=25481677), [Prasser HM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Prasser%20HM%5BAuthor%5D&cauthor=true&cauthor_uid=25481677)

[*Appl Radiat Isot.*](http://www.ncbi.nlm.nih.gov/pubmed/25481677)*2015, Feb, V.96 pp114-121. doi: 10.1016/j.apradiso.2014.11.017. Epub 2014 Nov 26*

[Analyzing the effect of geometric factors on designing neutron radiography system](http://www.sciencedirect.com/science/article/pii/S0969804315301706)

[Amini M](http://europepmc.org/search?page=1&query=AUTH:%22Amini+M%22&restrict=All+results), [Fadaei AH](http://europepmc.org/search?page=1&query=AUTH:%22Fadaei+AH%22&restrict=All+results), [Gharib M](http://europepmc.org/search?page=1&query=AUTH:%22Gharib+M%22&restrict=All+results)

[*Appl Radiat Isot.*](http://www.ncbi.nlm.nih.gov/pubmed/25481677)*2015, Nov, V.105 pp 249-256] doi: 10.1016/j.apradiso.2015.08.030*

[Inter-comparison of boron concentration measurements at INFN-University of Pavia (Italy) and CNEA (Argentina)](http://www.sciencedirect.com/science/article/pii/S0969804315001517)

[Portu A](http://europepmc.org/search?page=1&query=AUTH:%22Portu+A%22), [Postuma I](http://europepmc.org/search?page=1&query=AUTH:%22Postuma+I%22), [Gadan MA](http://europepmc.org/search?page=1&query=AUTH:%22Gadan+MA%22), [Saint Martin G](http://europepmc.org/search?page=1&query=AUTH:%22Saint+Martin+G%22), [Olivera MS](http://europepmc.org/search?page=1&query=AUTH:%22Olivera+MS%22), [Altieri S](http://europepmc.org/search?page=1&query=AUTH:%22Altieri+S%22), [Protti N](http://europepmc.org/search?page=1&query=AUTH:%22Protti+N%22), [Bortolussi S](http://europepmc.org/search?page=1&query=AUTH:%22Bortolussi+S%22)

[*Appl Radiat Isot.*](http://www.ncbi.nlm.nih.gov/pubmed/25481677)*2015, Dec, V.106 pp 171-175*

[**ArXiv.org**](http://www.sciencedirect.com/science/journal/03605442/68/supp/C)**(1)**

[Time-resolved neutron imaging at ANTARES cold neutron beamline](http://arxiv.org/ftp/arxiv/papers/1502/1502.00077.pdf)

[A.S. Tremsin](http://arxiv.org/find/physics/1/au%3A%2BTremsin_A/0/1/0/all/0/1), [V. Dangendorf](http://arxiv.org/find/physics/1/au%3A%2BDangendorf_V/0/1/0/all/0/1), [K. Tittelmeier](http://arxiv.org/find/physics/1/au%3A%2BTittelmeier_K/0/1/0/all/0/1), [B. Schillinger](http://arxiv.org/find/physics/1/au%3A%2BSchillinger_B/0/1/0/all/0/1), [M. Schulz](http://arxiv.org/find/physics/1/au%3A%2BSchulz_M/0/1/0/all/0/1), [M. Lerche](http://arxiv.org/find/physics/1/au%3A%2BLerche_M/0/1/0/all/0/1), [W. B. Feller](http://arxiv.org/find/physics/1/au%3A%2BFeller_W/0/1/0/all/0/1)

[*arXiv:1502.00077*](http://arxiv.org/abs/1502.00077)*[*[*pdf*](http://arxiv.org/pdf/1502.00077)*]*

[**CINDE Journal**](https://www.cinde.ca/journal/ma15.shtml)**(1)**

[Non-destructive examination of a time capsule recovered from the Gore Park excavations, Hamilton, Ontario](https://www.etde.org/etdeweb/details.jsp?query_id=1&page=0&osti_id=22396634)

MacDonald, B.L.

*CINDE Journal; Journal Volume: 36; Journal Issue: 2;*

[**Energy**](http://www.sciencedirect.com/science/journal/03605442/68/supp/C)**(1)**

[Investigation of the liquid water distributions in a 50 cm2 PEM fuel cell: Effects of reactants relative humidity, current density, and cathode stoichiometry](http://www.sciencedirect.com/science/article/pii/S0360544215001255)

Alfredo Iranzo, Pierre Boillat, Johannes Biesdorf, Antonio Salva

*Energy (in press, doi:10.1016/j.energy.2015.01.101)*

[**EPJ Web of Conferences**](http://www.epj-conferences.org/)**(1)**

[Neutron imaging methods for the investigation of energy related materials - Fuel cells, battery, hydrogen storage and nuclear fuel](http://www.epj-conferences.org/articles/epjconf/abs/2015/23/epjconf-jdn_01007/epjconf-jdn_01007.html)

Eberhard H. Lehmann, Pierre Boillat, Anders Kaestner, Peter Vontobel and David Mannes

*JDN 21 - Neutrons and Materials for Energy, V. 104 (2015), published online Oct 2015*

doi: <http://dx.doi.org/10.1051/epjconf/201510401007>

http://www.epj-conferences.org/articles/epjconf/pdf/2015/23/epjconf-jdn\_01007.pdf

[**Forensic Science International**](http://www.sciencedirect.com/science/journal/03790738/251)**(1)**

[A novel approach to determine post mortem interval using neutron radiography](http://www.osti.gov/scitech/biblio/1185668)

Hassina Z. Bilheux, Maria Cekanova, Arpad A. Vass, Trent L. Nichols, Jean C. Bilheux, Robert L. Donnell, Vincenzo Finochiarro

*Forensic Science International V.251, (June 2015) pp 11-21*

[**Gladius**](http://gladius.revistas.csic.es/index.php/gladius)**(1)**

[Nondestructive methods of analysis applied to oriental swords](http://worldwidescience.org/wws/desktop/en/ostiblue/service/link/track?searchId=e8baaf1f-5ad0-40ed-a619-28f8c6984c5b&type=RESULT&collectionCode=DOAJ-ART-EN&redirectUrl=http%3A%2F%2Fgladius.revistas.csic.es%2Findex.php%2Fgladius%2Farticle%2Fview%2F281%2F285)

David Edge, Alan Williams, Zsolt Kasztovszky, Zoltán Kis, Imre Kovács, László Rosta, Zoltán Szőkefalvi-Nagy, György Káli

*Gladius 2015 V. 35 doi:10.3989/gladius.2015*

[**IEEE Transactions on Nuclear Science**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23)**(1)**

[Quantification of Cement Hydration through Neutron Radiography with Scatter Rejection](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7111379&filter%3DAND%28p_IS_Number%3A7122976%29)

A.S. Tremsin, E. Lehmann, J.B. McPhate, J.V. Vallerga, O.H.W. Siegmund, B. White, P. White, W.B. Feller, F.C. de Beer, W. Kockelmann

*IEEE Transactions on Nuclear Science, Vol. 62, No. 3, June 2015*

[**Journal of Advances in Physics**](http://cirjap.org/)**(1)**

[Study of homogeneity, porosity and internal defects in Aerated and EPS aggregate poly bricks using neutron radiography technique](http://cirjap.com/ojs/index.php/jap/article/view/143)

Md. Khurshed Alam, Md. Sayeedur Rahman, Md. Mostafizur Rahman, S. M. Azaharul Islam

*Journal of Advances In Physics, 7(2) (2015) pp 1428-1439*

[**Journal of Engineering Science and Technology Review**](http://www.jestr.org/)**(1)**

[A neutron radiography facility based on an experimental reactor](http://www.jestr.org/downloads/Volume8Issue3/fulltext8382015.pdf)

D. T. Thomas, J. G. Fantidis and G. E. Nicolaou

*Journal of Engineering Science and Technology Review, 8(3) (2015)*

[**Journal of Power Sources**](http://www.journals.elsevier.com/journal-of-power-sources/)**(1)**

[In operando visualization of hydride-graphite composites during cyclic hydrogenation by high-resolution neutron imaging](http://www.sciencedirect.com/science/article/pii/S037877531402028X)

[Pohlmann, Carsten](http://adsabs.harvard.edu/cgi-bin/author_form?author=Pohlmann,+C&fullauthor=Pohlmann,%20Carsten&charset=UTF-8&db_key=PHY); [Herbrig, Kai](http://adsabs.harvard.edu/cgi-bin/author_form?author=Herbrig,+K&fullauthor=Herbrig,%20Kai&charset=UTF-8&db_key=PHY); [Gondek, Łukasz](http://adsabs.harvard.edu/cgi-bin/author_form?author=Gondek&fullauthor=Gondek,%20%c5%81ukasz&charset=UTF-8&db_key=PHY); Kardjilov, Nikolay; [Hilger, André](http://adsabs.harvard.edu/cgi-bin/author_form?author=Hilger,+A&fullauthor=Hilger,%20Andr%c3%a9&charset=UTF-8&db_key=PHY); [Figiel, Henryk](http://adsabs.harvard.edu/cgi-bin/author_form?author=Figiel,+H&fullauthor=Figiel,%20Henryk&charset=UTF-8&db_key=PHY); [Banhart, John](http://adsabs.harvard.edu/cgi-bin/author_form?author=Banhart,+J&fullauthor=Banhart,%20John&charset=UTF-8&db_key=PHY); [Kieback, Bernd](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kieback,+B&fullauthor=Kieback,%20Bernd&charset=UTF-8&db_key=PHY); [Manke, Ingo](http://adsabs.harvard.edu/cgi-bin/author_form?author=Manke,+I&fullauthor=Manke,%20Ingo&charset=UTF-8&db_key=PHY); [Röntzsch, Lars](http://adsabs.harvard.edu/cgi-bin/author_form?author=Roentzsch,+L&fullauthor=R%c3%b6ntzsch,%20Lars&charset=UTF-8&db_key=PHY)

*Journal of Power Sources, Volume 277, March 2015, pp. 360-369*

[**Neutron News**](http://www.tandfonline.com/loi/gnnw20#.VQHAgI7kdmw)**(10)**

[Analyses using neutrons and positrons](http://www.tandfonline.com/doi/abs/10.1080/10448632.2015.996024#.VQG8KI7kdmw)

Zsolt Revay, Heiko Gerstenberg, Michael Schulz, Konrad Solbrig, Christoph Hugenschmidt  & Andrea Voit

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 1*](http://www.tandfonline.com/toc/gnnw20/26/1)*, 2015, pp. 23-28*

*DOI: 10.1080/10448632.2015.996024*

[Instrumentation in Neutron Imaging — A world-wide overview](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028270)

[Eberhard H. Lehmann](http://www.tandfonline.com/author/Lehmann%2C%2BEberhard%2BH), [Steven Peetermans](http://www.tandfonline.com/author/Peetermans%2C%2BSteven) & [Benedikt Betz](http://www.tandfonline.com/author/Betz%2C%2BBenedikt)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 6-10*

***DOI:*** *10.1080/10448632.2015.1028270*

[Commissioning start of Energy-Resolved Neutron Imaging System, RADEN in J-PARC](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028271)

[Takenao Shinohara](http://www.tandfonline.com/author/Shinohara%2C%2BTakenao)& [Tetsuya Kai](http://www.tandfonline.com/author/Kai%2C%2BTetsuya)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 11-14*

***DOI:*** *10.1080/10448632.2015.1028271*

[State-of-the-art neutron imaging](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028272)

[Nikolay Kardjilov](http://www.tandfonline.com/author/Kardjilov%2C%2BNikolay), [André Hilger](http://www.tandfonline.com/author/Hilger%2C%2BAndr%C3%A9) & [Ingo Manke](http://www.tandfonline.com/author/Manke%2C%2BIngo)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 15-18*

***DOI:*** *10.1080/10448632.2015.1028272*

[Applications of neutron imaging and future possibilities](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028273)

[Daniel S. Hussey](http://www.tandfonline.com/author/Hussey%2C%2BDaniel%2BS) & [David L. Jacobson](http://www.tandfonline.com/author/Jacobson%2C%2BDavid%2BL)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 19-22*

***DOI:*** *10.1080/10448632.2015.1028273*

[From scattering in imaging to prospects at pulsed sources](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028275)

[M. Strobl](http://www.tandfonline.com/author/Strobl%2C%2BM) & [F. Grazzi](http://www.tandfonline.com/author/Grazzi%2C%2BF)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 23-26*

***DOI:*** *10.1080/10448632.2015.1028275*

[Potential and status in imaging with fast neutrons](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028276)

[Volker Dangendorf](http://www.tandfonline.com/author/Dangendorf%2C%2BVolker) & [Robert Zboray](http://www.tandfonline.com/author/Zboray%2C%2BRobert)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 27-30*

**DOI:** 10.1080/10448632.2015.1028276

[Quantitative analysis of hydrogen uptake, diffusion and distribution in nuclear fuel rod claddings made of zirconium alloys](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028277)

[Mirco Grosse](http://www.tandfonline.com/author/Grosse%2C%2BMirco)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 31-33*

***DOI:*** *10.1080/10448632.2015.1028277*

[Status and prospects in neutron tomography](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028278)

[A. P. Kaestner](http://www.tandfonline.com/author/Kaestner%2C%2BA%2BP)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 34-38*

***DOI:*** *10.1080/10448632.2015.1028278*

[Exploiting diffraction in neutron imaging to reveal spatial variation in crystal properties](http://www.tandfonline.com/doi/full/10.1080/10448632.2015.1028279)

[S. Peetermans](http://www.tandfonline.com/author/Peetermans%2C%2BS) & [E. H. Lehmann](http://www.tandfonline.com/author/Lehmann%2C%2BE%2BH)

*Neutron News,* [*Volume 26*](http://www.tandfonline.com/loi/gnnw20?open=26#vol_26)*,*[*Issue 2*](http://www.tandfonline.com/toc/gnnw20/26/2)*, 2015, pp 39-43*

***DOI:*** *10.1080/10448632.2015.1028279*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002)**(2)**

[Development of a pulsed neutron three-dimensional imaging system using a highly sensitive image-intensifier at J-PARC](http://www.sciencedirect.com/science/article/pii/S0168900214010419)

[Segawa, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Segawa,+M&fullauthor=Segawa,%20M.&charset=UTF-8&db_key=PHY); [Ooi, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Ooi,+M&fullauthor=Ooi,%20M.&charset=UTF-8&db_key=PHY); [Kai, T.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kai,+T&fullauthor=Kai,%20T.&charset=UTF-8&db_key=PHY); [Shinohara, T.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Shinohara,+T&fullauthor=Shinohara,%20T.&charset=UTF-8&db_key=PHY); [Kureta, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kureta,+M&fullauthor=Kureta,%20M.&charset=UTF-8&db_key=PHY); [Sakamoto, K.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Sakamoto,+K&fullauthor=Sakamoto,%20K.&charset=UTF-8&db_key=PHY); [Imaki, T.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Imaki,+T&fullauthor=Imaki,%20T.&charset=UTF-8&db_key=PHY)

*Nuclear Inst. and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 769, p. 97-104, 2015*

[Spatially resolved remote measurement of temperature by neutron resonance absorption](http://www.sciencedirect.com/science/article/pii/S0168900215010578)

A.S. Tremsin, W. Kockelmann, D.E. Pooley, W.B. Feller

*Nuclear Inst. and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 803, p. 15-23, 2015*

[**Optics Express**](https://www.osapublishing.org/oe/browse.cfm) **(1)**

[Neutron guide optimisation for a time-of-flight neutron imaging instrument at the European Spallation Source](https://www.osapublishing.org/oe/abstract.cfm?uri=oe-23-1-301)

[Hilger A](http://europepmc.org/search?page=1&query=AUTH:%22Hilger+A%22&restrict=All+results), [Kardjilov N](http://europepmc.org/search?page=1&query=AUTH:%22Kardjilov+N%22&restrict=All+results), [Manke I](http://europepmc.org/search?page=1&query=AUTH:%22Manke+I%22&restrict=All+results), [Zendler C](http://europepmc.org/search?page=1&query=AUTH:%22Zendler+C%22&restrict=All+results), [Lieutenant K](http://europepmc.org/search?page=1&query=AUTH:%22Lieutenant+K%22&restrict=All+results), [Habicht K](http://europepmc.org/search?page=1&query=AUTH:%22Habicht+K%22&restrict=All+results), [Banhart J](http://europepmc.org/search?page=1&query=AUTH:%22Banhart+J%22&restrict=All+results), [Strobl M](http://europepmc.org/search?page=1&query=AUTH:%22Strobl+M%22&restrict=All+results)

[*Optics Express*](http://europepmc.org/search?page=1&query=JOURNAL:%22Opt+Express%22&restrict=All+results)*[2015, 23(1):301-311]*

[**Physical Chemistry Chemical Physics**](http://www.rsc.org/journals-books-databases/about-journals/PCCP/?e=1)  **(1)**

[Kinks in experimental diffusion profiles of a dissolving semi-crystalline polymer explained by a concentration-dependent diffusion coefficient](http://pubs.rsc.org/en/content/articlelanding/2015/cp/c5cp01082a#!divAbstract)

[Hermes HE](http://europepmc.org/search?page=1&query=AUTH:%22Hermes+HE%22), [Sitta CE](http://europepmc.org/search?page=1&query=AUTH:%22Sitta+CE%22), [Schillinger B](http://europepmc.org/search?page=1&query=AUTH:%22Schillinger+B%22), [Löwen H](http://europepmc.org/search?page=1&query=AUTH:%22L%C3%B6wen+H%22), [Egelhaaf SU](http://europepmc.org/search?page=1&query=AUTH:%22Egelhaaf+SU%22)

*Phys.Chem.Chem.Phys., 2015, 17, 15781*

[**Physical Review E**](http://journals.aps.org/pre/issues) **(1)**

[Roots at the percolation threshold](http://journals.aps.org/pre/abstract/10.1103/PhysRevE.91.042706)

Eva Kroener, Mutez Ali Ahmed, and Andrea Carminati

*Phys. Rev. E**91, 042706, 13 April 2015*

[**Physics Procedia**](http://www.sciencedirect.com/science/journal/18753892)**(101)**

Proceedings of the 10th World Conference on Neutron Radiography (WCNR-10) Grindelwald, Switzerland October 5–10, 2014

Edited by Eberhard H. Lehmann, Anders P. Kaestner and David Mannes

**Physics Procedia**
**Volume 69, Pages 1-660 (2015)**

[Status of Neutron Imaging – Activities in a Worldwide Context](http://www.sciencedirect.com/science/article/pii/S1875389215006112)

Pages 10-17

Eberhard H. Lehmann, Danas Ridikas

[PDF (1079 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006112/pdf?md5=d2495c06fe11e1c7dbb2de143426ecab&pid=1-s2.0-S1875389215006112-main.pdf)

[The Scope of the Imaging Instrument Project ODIN at ESS](http://www.sciencedirect.com/science/article/pii/S1875389215006124)

Pages 18-26

Markus Strobl

[PDF (1116 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006124/pdf?md5=0312a5d5e709d0f5ada2098ffe9bde09&pid=1-s2.0-S1875389215006124-main.pdf)

 [A New Neutron Radiography / Tomography / Imaging Station DINGO at OPAL](http://www.sciencedirect.com/science/article/pii/S1875389215006136)

Pages 27-32

U. Garbe, T. Randall, C. Hughes, G. Davidson, S. Pangelis, S.J. Kennedy

[PDF (1417 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006136/pdf?md5=2fbbb4b2dc9a316416bf728bb8ca8836&pid=1-s2.0-S1875389215006136-main.pdf)

[The New Cold Neutron Radiography Facility (CNRF) at the Mianyang Research Reactor of the China Academy of Engineering Physics](http://www.sciencedirect.com/science/article/pii/S1875389215006148)

Pages 33-39

Tang Bin, Huo Heyong, Tang Ke, John Rogers, Martin Haste, Marios Christodoulou

[PDF (1297 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006148/pdf?md5=24a006b42131ca40596ec501a7fa8f77&pid=1-s2.0-S1875389215006148-main.pdf)

[Neutron Based Imaging and Element-mapping at the Budapest Neutron Centre](http://www.sciencedirect.com/science/article/pii/S187538921500615X)

Pages 40-47

Z. Kis, L. Szentmiklósi, T. Belgya, M. Balaskó, L.Z. Horváth, B. Maróti

[PDF (1949 K)](http://www.sciencedirect.com/science/article/pii/S187538921500615X/pdf?md5=46822c5968fdcf2d2e279af58fd9df5e&pid=1-s2.0-S187538921500615X-main.pdf)

[A New Cold Neutron Imaging Instrument at NIST](http://www.sciencedirect.com/science/article/pii/S1875389215006161)

Pages 48-54

D.S. Hussey, C. Brocker, J.C. Cook, D.L. Jacobson, T.R. Gentile, W.C. Chen, E. Baltic, D.V. Baxter, J. Doskow, M. Arif

[PDF (1934 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006161/pdf?md5=a4a1cb5054d0e14701a2432a8d5aa460&pid=1-s2.0-S1875389215006161-main.pdf)

[Overview of the Conceptual Design of the Future VENUS Neutron Imaging Beam Line at the Spallation Neutron Source](http://www.sciencedirect.com/science/article/pii/S1875389215006173)

Pages 55-59

Hassina Bilheux, Ken Herwig, Scott Keener, Larry Davis

[PDF (1016 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006173/pdf?md5=d6cdff3ed81ba1292bfa40655dfaed6c&pid=1-s2.0-S1875389215006173-main.pdf)

[Imaging with Cold Neutrons at the CONRAD-2 Facility](http://www.sciencedirect.com/science/article/pii/S1875389215006185)

Pages 60-66

Nikolay Kardjilov, André Hilger, Ingo Manke, Axel Griesche, John Banhart

[PDF (778 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006185/pdf?md5=83b5cd84408acf513108c53b3a46f36e&pid=1-s2.0-S1875389215006185-main.pdf)

[IMAGINE: A Cold Neutron Imaging Station at the Laboratoire Léon Brillouin](http://www.sciencedirect.com/science/article/pii/S1875389215006197)

Pages 67-70

Frédéric Ott, Camille Loupiac, Sylvain Désert, Arnaud Hélary, Pascal Lavie

[PDF (1060 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006197/pdf?md5=d218917e192a0c74660707b101d24780&pid=1-s2.0-S1875389215006197-main.pdf)

[Status of the Neutron Imaging and Diffraction Instrument IMAT](http://www.sciencedirect.com/science/article/pii/S1875389215006203)

Pages 71-78

Winfried Kockelmann, Genoveva Burca, Joe F. Kelleher, Saurabh Kabra, Shu-Yan Zhang, Nigel J. Rhodes, Erik M. Schooneveld, Jeff Sykora, Daniel E. Pooley, Jim B. Nightingale, Francesco Aliotta, Rosa C. Ponterio, Gabriele Salvato, Dario Tresoldi, Cirino Vasi, Jason B. McPhate, Anton S. Tremsin

[PDF (1471 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006203/pdf?md5=5fd966522f2d329d66a1374011ceecef&pid=1-s2.0-S1875389215006203-main.pdf)

[Characterization of a Real-time Neutron Imaging Test Station at China Advanced Research Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006215)

Pages 79-86

Linfeng He, Songbai Han, Hongli Wang, Guohai Wei, Yu Wang, Meimei Wu, Yuntao Liu, Dongfeng Chen

[PDF (909 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006215/pdf?md5=f5d4ad4055292c4592dd8a4b14471018&pid=1-s2.0-S1875389215006215-main.pdf)

[Neutron Radiography Facility at IBR-2 High Flux Pulsed Reactor: First Results](http://www.sciencedirect.com/science/article/pii/S1875389215006227)

Pages 87-91

D.P. Kozlenko, S.E. Kichanov, E.V. Lukin, A.V. Rutkauskas, G.D. Bokuchava, B.N. Savenko, A.V. Pakhnevich, A.Yu. Rozanov

[PDF (2373 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006227/pdf?md5=eafa3e41447078600bcb6442971b9d26&pid=1-s2.0-S1875389215006227-main.pdf)

Open Access Article

[Design of a Thermal Neutron Beam for a New Neutron Imaging Facility at Tehran Research Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006239)

Pages 92-95

Mohammad Hossein Choopan Dastjerdi, Hossein Khalafi

[PDF (386 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006239/pdf?md5=33abcdd781a14aa200ec666e5aa883af&pid=1-s2.0-S1875389215006239-main.pdf)

[Development Progress of the Neutron Imaging Station in CPHS](http://www.sciencedirect.com/science/article/pii/S1875389215006240)

Pages 96-103

Yongshun Xiao, Zhiqiang Chen, Yigang Yang, Xuewu Wang

[PDF (2260 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006240/pdf?md5=617c98b70f0c5f6737e6cd9b04fcaefe&pid=1-s2.0-S1875389215006240-main.pdf)

[The CG-1D Neutron Imaging Beamline at the Oak Ridge National Laboratory High Flux Isotope Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006252)

Pages 104-108

Lou Santodonato, Hassina Bilheux, Barton Bailey, Jean Bilheux, Phong Nguyen, Anton Tremsin, Doug Selby, Lakeisha Walker

[PDF (1919 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006252/pdf?md5=9d2293754c77fb34b887a17ec60121a5&pid=1-s2.0-S1875389215006252-main.pdf)

[Fast Neutron Radiography at an RFQ Accelerator System](http://www.sciencedirect.com/science/article/pii/S1875389215006264)

Pages 109-114

G.C. Daniels, C.B. Franklyn, V. Dangendorf, A. Buffler, B. Bromberger

[PDF (933 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006264/pdf?md5=36f66fc7f9f2c8c124ec1087f985db98&pid=1-s2.0-S1875389215006264-main.pdf)

[Upgrading the Neutron Radiography Facility in South Africa (SANRAD): Concrete Shielding Design Characteristics](http://www.sciencedirect.com/science/article/pii/S1875389215006276)

Pages 115-123

F.C. de Beer, M.J. Radebe, B. Schillinger, R. Nshimirimana, M.A. Ramushu, T. Modise

[PDF (1159 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006276/pdf?md5=a7c39a04011f376c3cc92c701158dc3b&pid=1-s2.0-S1875389215006276-main.pdf)

[Present and Future Activities on Neutron Imaging in Argentina](http://www.sciencedirect.com/science/article/pii/S1875389215006288)

Pages 124-129

Aureliano Tartaglione, Jerónimo Blostein, Florencia Cantargi, Julio Marín, Alberto Baruj, Gabriel Meyer, Javier Santisteban, Fernando Sánchez

[PDF (476 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006288/pdf?md5=ad898dbf97a146b521145424d3b3654d&pid=1-s2.0-S1875389215006288-main.pdf)

[Development and Test of a Neutron Imaging Setup at the PGAA Instrument at FRM II](http://www.sciencedirect.com/science/article/pii/S187538921500629X)

Pages 130-137

S. Söllradl, M.J. Mühlbauer, P. Kudejova, A. Türler

[PDF (629 K)](http://www.sciencedirect.com/science/article/pii/S187538921500629X/pdf?md5=307334ba4aa49d4c08b21acee7238a2c&pid=1-s2.0-S187538921500629X-main.pdf)

[Simulation of Collimator for Neutron Imaging Facility of TRIGA MARK II PUSPATI Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006306)

Pages 138-142

Muhammad Rawi Mohamed Zin, Rafhayudi Jamro, Khairiah Yazid, Hishamuddin Hussain, Hafizal Yazid, Megat Harun Al Rashid Megat Ahmad, Azraf Azman, Glam Hadzir Patai Mohamad, Nai’im Syaugi Hamzah, Mohamad Puad Abu

[PDF (366 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006306/pdf?md5=f3323cfbc8df5297245c0acc7da85ecf&pid=1-s2.0-S1875389215006306-main.pdf)

[Development of a New High-Frame-Rate Camera for Pulsed Neutron Transmission Spectroscopic Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006318)

Pages 143-151

K. Mochiki, K. Ishizuka, K. Morikawa, T. Kamiyama, Y. Kiyanagi

[PDF (5096 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006318/pdf?md5=064630bffd4187698d3246242ebf36c4&pid=1-s2.0-S1875389215006318-main.pdf)

[Detectors Requirements for the ODIN Beamline at ESS](http://www.sciencedirect.com/science/article/pii/S187538921500632X)

Pages 152-160

Manuel Morgano, Eberhard Lehmann, Markus Strobl

[PDF (226 K)](http://www.sciencedirect.com/science/article/pii/S187538921500632X/pdf?md5=143daf227604b7d4a44c79423b3ccfc7&pid=1-s2.0-S187538921500632X-main.pdf)

[New Structured Scintillators for Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006331)

Pages 161-168

V.V. Nagarkar, E.E. Ovechkina, H.B. Bhandari, L. Soundara-Pandian, M.J. More, R.A. Riedel, S.R. Miller

[PDF (3900 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006331/pdf?md5=641b54e27f77196a048c7a503f394efa&pid=1-s2.0-S1875389215006331-main.pdf)

[Improving the Spatial Resolution of Neutron Imaging at Paul Scherrer Institut – The Neutron Microscope Project](http://www.sciencedirect.com/science/article/pii/S1875389215006343)

Pages 169-176

Pavel Trtik, Jan Hovind, Christian Grünzweig, Alex Bollhalder, Vincent Thominet, Christian David, Anders Kaestner, Eberhard H. Lehmann

[PDF (11653 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006343/pdf?md5=fb5416b8b5d9d3231a457247a8f0565d&pid=1-s2.0-S1875389215006343-main.pdf)

[Development of Neutron Color Image Intensifier for Pulsed Neutron Source](http://www.sciencedirect.com/science/article/pii/S1875389215006355)

Pages 177-184

Koichi Nittoh, Chikara Konagai, Mitsuru Yahagi, Yoshiaki Kiyanagi, Takashi Kamiyama

[PDF (3086 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006355/pdf?md5=b8ad82e0cf10d243bc92f7f0d144e80b&pid=1-s2.0-S1875389215006355-main.pdf)

[Inexpensive Neutron Imaging Cameras Using CCDs for Astronomy](http://www.sciencedirect.com/science/article/pii/S1875389215006367)

Pages 185-188

A.W. Hewat

[PDF (823 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006367/pdf?md5=9f2f64d53a1d1959ee3e7c6ea3a55280&pid=1-s2.0-S1875389215006367-main.pdf)

[Energy-selective Neutron Imaging for Three-dimensional Non-destructive Probing of Crystalline Structures](http://www.sciencedirect.com/science/article/pii/S1875389215006379)

Pages 189-197

S. Peetermans, M. Bopp, P. Vontobel, E.H. Lehmann

[PDF (5019 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006379/pdf?md5=0ac8108cdc2e16815fb869729c8df3c4&pid=1-s2.0-S1875389215006379-main.pdf)

[Selective Energy Neutron Radiographic Imaging Origins and Lessons for Low Cost Systems](http://www.sciencedirect.com/science/article/pii/S1875389215006380)

Pages 198-201

J.P. Barton, J.D. Rogers

[PDF (132 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006380/pdf?md5=a9b6a378ff4df2c5cc97efaffc3709c8&pid=1-s2.0-S1875389215006380-main.pdf)

[Neutron Tomography Using Mobile Neutron Generators for Assessment of Void Distributions in Thermal Hydraulic Test Loops](http://www.sciencedirect.com/science/article/pii/S1875389215006392)

Pages 202-209

P. Andersson, T. Bjelkenstedt, E. Andersson Sundén, H. Sjöstrand, S. Jacobsson-Svärd

[PDF (1593 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006392/pdf?md5=d7709f295d2fa55641143128f206c8b6&pid=1-s2.0-S1875389215006392-main.pdf)

[Neutron Imaging Facility Development and Research Trend at NIST](http://www.sciencedirect.com/science/article/pii/S1875389215006409)

Pages 210-217

M. Arif, D.S. Hussey, E.M. Baltic, D.L. Jacobson

[PDF (1611 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006409/pdf?md5=9d0323287356f8331dbb5b9b5517c6f4&pid=1-s2.0-S1875389215006409-main.pdf)

[Magnified Neutron Radiography with Coded Sources](http://www.sciencedirect.com/science/article/pii/S1875389215006410)

Pages 218-226

P. Bingham, H. Santos-Villalobos, N. Lavrik, J. Gregor, H. Bilheux

[PDF (6074 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006410/pdf?md5=a8e4786a11686be6ba12b5b4c821006c&pid=1-s2.0-S1875389215006410-main.pdf)

[Neutron Bragg Edge Tomography for Phase Mapping](http://www.sciencedirect.com/science/article/pii/S1875389215006422)

Pages 227-236

Robin Woracek, Dayakar Penumadu, Nikolay Kardjilov, Andre Hilger, Mirko Boin, John Banhart, Ingo Manke

[PDF (1587 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006422/pdf?md5=e084f65c40c8499699296dc2ff06fd75&pid=1-s2.0-S1875389215006422-main.pdf)

[Combining Neutron and Magnetic Resonance Imaging to Study the Interaction of Plant Roots and Soil](http://www.sciencedirect.com/science/article/pii/S1875389215006434)

Pages 237-243

Sascha E. Oswald, Christian Tötzke, Sabina Haber-Pohlmeier, Andreas Pohlmeier, Anders P. Kaestner, Eberhard Lehmann

[PDF (563 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006434/pdf?md5=43dd136739d3cefd03456d9ad39811bd&pid=1-s2.0-S1875389215006434-main.pdf)

[Artefacts in Neutron CT – Their effects and how to Reduce some of Them](http://www.sciencedirect.com/science/article/pii/S1875389215006446)

Pages 244-251

Burkhard Schillinger, Francesco Grazzi

[PDF (1812 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006446/pdf?md5=0551054a245f90ba314291b5898af89c&pid=1-s2.0-S1875389215006446-main.pdf)

[Limited-view Neutron CT Reconstruction with Sample Boundary](http://www.sciencedirect.com/science/article/pii/S1875389215006458)

Pages 252-257

Hu Wang, Yubin Zou, Yuanrong Lu, Zhiyu Guo

[PDF (489 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006458/pdf?md5=9b553bffc88507f13f69ce5cf7952e15&pid=1-s2.0-S1875389215006458-main.pdf)

[Experience of the Indirect Neutron Radiography Method Based on the X-ray Imaging Plate at CARR](http://www.sciencedirect.com/science/article/pii/S187538921500646X)

Pages 258-264

Guohai Wei, Songbai Han, Hongli Wang, Linfeng He, Yu Wang, Meimei Wu, Yuntao Liu, Dongfeng Chen

[PDF (441 K)](http://www.sciencedirect.com/science/article/pii/S187538921500646X/pdf?md5=acb373a37d44d392e2f9a7249b4f0ca3&pid=1-s2.0-S187538921500646X-main.pdf)

[Image Enhancement for High frame-rate Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006471)

Pages 265-270

Y. Saito, D. Ito

[PDF (5681 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006471/pdf?md5=c2b24f3e348af53ae56bdc866f60a233&pid=1-s2.0-S1875389215006471-main.pdf)

[First Attempts on Energy-selective Neutron Imaging at IBR-2](http://www.sciencedirect.com/science/article/pii/S1875389215006483)

Pages 271-274

E.V. Lukin, D.P. Kozlenko, S.E. Kichanov, A.V. Rutkauskas, G.D. Bokuchava, B.N. Savenko

[PDF (1033 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006483/pdf?md5=36a771abd7a3c129fa3a93b0b5ab8bf9&pid=1-s2.0-S1875389215006483-main.pdf)

[Fast Neutron Tomography of Low-Z Object in High-Z Material Shielding](http://www.sciencedirect.com/science/article/pii/S1875389215006495)

Pages 275-283

Ruth Weiss Babai, Iris Sabo-Napadensky, Doron Bar, Ilan Mor, Noam Tamim, Volker Dangendorf, Kai Tittelmeier, Benjamin Bromberger, Mathias Weierganz

[PDF (1278 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006495/pdf?md5=9dfdfdad0b06d8fd088eb8010f641a1e&pid=1-s2.0-S1875389215006495-main.pdf)

[Simulation of Fast Neutron Radiography with a Time-of-Flight System](http://www.sciencedirect.com/science/article/pii/S1875389215006501)

Pages 284-291

D. Chen, J. Bao, Q. Zhang, S. Han, J. Ren, Y. Nie, X. Ruan, L. Hou

[PDF (304 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006501/pdf?md5=084e097b3dcd0975773bd3ace5273877&pid=1-s2.0-S1875389215006501-main.pdf)

[On-the-fly Neutron Tomography of Water Transport into Lupine Roots](http://www.sciencedirect.com/science/article/pii/S1875389215006513)

Pages 292-298

Mohsen Zarebanadkouki, Andrea Carminati, Anders Kaestner, David Mannes, Manuel Morgano, Steven Peetermans, Eberhard Lehmann, Pavel Trtik

[PDF (1162 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006513/pdf?md5=1f0d892a4383788445933cc9fcad154e&pid=1-s2.0-S1875389215006513-main.pdf)

[Bright Flash Neutron Radiography at the McClellan Nuclear Research Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006525)

Pages 299-303

M. Lerche, A.S. Tremsin, B. Schillinger

[PDF (1540 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006525/pdf?md5=34b9ec2dd0bfe86b54d6d5dc452b7766&pid=1-s2.0-S1875389215006525-main.pdf)

[Reconstruction of Material Elemental Composition Using Fast Neutron Resonance Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006537)

Pages 304-313

Ilan Mor, Volker Dangendorf, Marcel Reginatto, Frank Kaufmann, David Vartsky, Michal Brandis, Doron Bar, Mark B. Goldberg

[PDF (5652 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006537/pdf?md5=0d1c61f8db50f75429687a2514774418&pid=1-s2.0-S1875389215006537-main.pdf)

[Laue Diffraction Using Scintillator Detectors](http://www.sciencedirect.com/science/article/pii/S1875389215006549)

Pages 314-319

Gail N. Iles, Steven Peetermans, Susan Schorr, Eberhard Lehmann

[PDF (710 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006549/pdf?md5=0f1107cc5388811a26dc134003d16079&pid=1-s2.0-S1875389215006549-main.pdf)

[Edge Refraction Contrast Imaging on a Coventional Neutron Diffractometer Employing Dispersive Double-Crystal Monochromator](http://www.sciencedirect.com/science/article/pii/S1875389215006550)

Pages 320-326

Pavol Mikula, Miroslav Vrána, Dušan Korytár

[PDF (997 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006550/pdf?md5=9539c382ba0f8abae58237608e8b4ab8&pid=1-s2.0-S1875389215006550-main.pdf)

[Influence of Surface Structures on the Entry of Neutrons into Moderating Material](http://www.sciencedirect.com/science/article/pii/S1875389215006562)

Pages 327-335

K. Thomsen, T. Reiss, P. Vontobel

[PDF (1893 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006562/pdf?md5=6d4e5eaa20e2c6aef11d2139f09a4313&pid=1-s2.0-S1875389215006562-main.pdf)

[Processing Neutron Imaging Data – Quo Vadis?](http://www.sciencedirect.com/science/article/pii/S1875389215006574)

Pages 336-342

A.P. Kaestner, M. Schulz

[PDF (1334 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006574/pdf?md5=079997e0d540bd8ba275da995125864c&pid=1-s2.0-S1875389215006574-main.pdf)

[iMARS (iMaging Analysis Research Software)](http://www.sciencedirect.com/science/article/pii/S1875389215006586)

Pages 343-348

Jean-Christophe Bilheux, Hassina Bilheux

[PDF (1825 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006586/pdf?md5=90b83a78e8012d486da1a996418fc98e&pid=1-s2.0-S1875389215006586-main.pdf)

[Development of the Tensor CT Algorithm for Strain Tomography Using Bragg-edge Neutron Transmission](http://www.sciencedirect.com/science/article/pii/S1875389215006598)

Pages 349-357

Hirotaka Sato, Yoshinori Shiota, Takenao Shinohara, Takashi Kamiyama, Masato Ohnuma, Michihiro Furusaka, Yoshiaki Kiyanagi

[PDF (3767 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006598/pdf?md5=2f19b9745af2e0214fb2763b4ef6b7d4&pid=1-s2.0-S1875389215006598-main.pdf)

[Precision of Porosity Calculation from “Material Stopping Power” Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006604)

Pages 358-365

Robert Nshimirimana, Mabuti Radebe, Frikkie de Beer

[PDF (2808 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006604/pdf?md5=0ec811d7b1bab3ba3b70d39ee6d44d47&pid=1-s2.0-S1875389215006604-main.pdf)

[Evaluation of Measurement Accuracy in Neutron and X-ray Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006616)

Pages 366-373

John Rogers, Alex Amaral-Rogers, Marios Christodoulou

[PDF (917 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006616/pdf?md5=3131f85b8002a0096b4567e0848cc45d&pid=1-s2.0-S1875389215006616-main.pdf)

[A Trial to Natural Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006628)

Pages 374-381

Ryoichi Taniguchi, Norio Ito

[PDF (1011 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006628/pdf?md5=2e35e6bbc7363e3ce42feb1bb117c0c1&pid=1-s2.0-S1875389215006628-main.pdf)

[A Significant Contribution of INAA in Autoradiography for Elemental Profile Construction](http://www.sciencedirect.com/science/article/pii/S187538921500663X)

Pages 382-387

Sasiphan Khaweerat, Wichian Ratanatongchai, Jatechan Channuie

[PDF (1181 K)](http://www.sciencedirect.com/science/article/pii/S187538921500663X/pdf?md5=7a34171cfc436f180aa756b1b49c1661&pid=1-s2.0-S187538921500663X-main.pdf)

[Wave Effect Neutron Radiographic Imaging Origins in WCNR and Prospects for Low Cost Systems](http://www.sciencedirect.com/science/article/pii/S1875389215006641)

Pages 388-391

J.P. Barton, J.D. Rogers

[PDF (135 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006641/pdf?md5=9bc9d5e551261190cfca474adb3c2183&pid=1-s2.0-S1875389215006641-main.pdf)

[Au Foil Activation Measurement and Simulation of the Concrete Neutron Shielding Ability for the Proposed New SANRAD Facility](http://www.sciencedirect.com/science/article/pii/S1875389215006653)

Pages 392-398

M.J. Radebe, S. Korochinsky, W.J. Strydom, F.C. De Beer

[PDF (308 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006653/pdf?md5=71b3c758b33771f6f5f4bbd009d100b1&pid=1-s2.0-S1875389215006653-main.pdf)

[Visualization of Bulk Magnetic Properties by Neutron Grating Interferometry](http://www.sciencedirect.com/science/article/pii/S1875389215006665)

Pages 399-403

B. Betz, P. Rauscher, R. Siebert, R. Schaefer, A. Kaestner, H. Van Swygenhoven, E. Lehmann, C. Grünzweig

[PDF (2020 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006665/pdf?md5=509eda5d28f91daf5aa7f6507b8c89f7&pid=1-s2.0-S1875389215006665-main.pdf)

[Three-Dimensional Imaging of Magnetic Domains with Neutron Grating Interferometry](http://www.sciencedirect.com/science/article/pii/S1875389215006677)

Pages 404-412

I. Manke, N. Kardjilov, R. Schäfer, A. Hilger, R. Grothausmann, M. Strobl, M. Dawson, Ch. Grünzweig, Ch. Tötzke, Ch. David, A. Kupsch, A. Lange, M.P. Hentschel, J. Banhart

[PDF (798 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006677/pdf?md5=a76467a430dfda8d00386a98c7df46e5&pid=1-s2.0-S1875389215006677-main.pdf)

[Determination of Bulk Magnetic Volume Properties by Neutron Dark-Field Imaging](http://www.sciencedirect.com/science/article/pii/S1875389215006689)

Pages 413-419

Christian Grünzweig, René Siebert, Benedikt Betz, Peter Rauscher, Rudolf Schäfer, Eberhard Lehmann

[PDF (4301 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006689/pdf?md5=2e419596ede42e72e8fbe209b2756f8a&pid=1-s2.0-S1875389215006689-main.pdf)

[Role of Temperature on Flux Trap Behavior in < 100 > Pb Cylindrical Sample: Polarized Neutron Radiography Investigation](http://www.sciencedirect.com/science/article/pii/S1875389215006690)

Pages 420-426

Indu Dhiman, O. Ebrahimi, N. Karakas, H. Höppner, R. Ziesche, Wolfgang Treimer

[PDF (7877 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006690/pdf?md5=0119290952e4434f65e4580e168273b0&pid=1-s2.0-S1875389215006690-main.pdf)

[Evaluation of Magnetic Field Vector by Polarization Analysis Using Pulsed Neutrons at HUNS for Magnetic Field Imaging](http://www.sciencedirect.com/science/article/pii/S1875389215006707)

Pages 427-435

N. Wada, T. Shinohara, H. Sato, H. Hasemi, T. Kamiyama, Y. Kiyanagi

[PDF (6047 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006707/pdf?md5=d979937e15a86c83c57a5f87fa4ebbea&pid=1-s2.0-S1875389215006707-main.pdf)

[Neutron Imaging Investigations of the Secondary Hydriding of Nuclear Fuel Cladding Alloys during Loss of Coolant Accidents](http://www.sciencedirect.com/science/article/pii/S1875389215006719)

Pages 436-444

M. Grosse, C. Roessger, J. Stuckert, M. Steinbrueck, A. Kaestner, N. Kardjilov, B. Schillinger

[PDF (519 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006719/pdf?md5=6ffe21516af0e8be5cdc2bc8e68cc47e&pid=1-s2.0-S1875389215006719-main.pdf)

[Measuring Hydrogen Distributions in Iron and Steel Using Neutrons](http://www.sciencedirect.com/science/article/pii/S1875389215006720)

Pages 445-450

A. Griesche, E. Dabah, T. Kannengiesser, A. Hilger, N. Kardjilov, I. Manke, B. Schillinger

[PDF (1015 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006720/pdf?md5=5aa4e463cbca69504e36665a55e63838&pid=1-s2.0-S1875389215006720-main.pdf)

[Drying of Porous Asphalt Concrete Investigated by X-Ray Computed Tomography](http://www.sciencedirect.com/science/article/pii/S1875389215006732)

Pages 451-456

I. Jerjen, L.D. Poulikakos, M. Plamondon, Ph. Schuetz, Th. Luethi, A. Flisch

[PDF (504 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006732/pdf?md5=024ed6213f9fa7bcd1e08af4c7a9e325&pid=1-s2.0-S1875389215006732-main.pdf)

[Neutron Radiography Visualization of Solid Particles in Stirring Liquid Metal](http://www.sciencedirect.com/science/article/pii/S1875389215006744)

Pages 457-463

M. Sarma, M. Ščepanskis, A. Jakovičs, K. Thomsen, R. Nikoluškins, P. Vontobel, T. Beinerts, A. Bojarevičs, E. Platacis

[PDF (1222 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006744/pdf?md5=ba18d7e7e9711e9da9ab836616a0ec42&pid=1-s2.0-S1875389215006744-main.pdf)

[Neutron Radiography of Fluid Flow for Geothermal Energy Research](http://www.sciencedirect.com/science/article/pii/S1875389215006756)

Pages 464-471

P. Bingham, Y. Polsky, L. Anovitz, J. Carmichael, H. Bilheux, D. Jacobsen, D. Hussey

[PDF (4950 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006756/pdf?md5=cfaaa7ef5f604229de082dac741e84ec&pid=1-s2.0-S1875389215006756-main.pdf)

[Computed Tomography with X-rays and Fast Neutrons for Restoration of Wooden Artwork](http://www.sciencedirect.com/science/article/pii/S1875389215006768)

Pages 472-477

Kurt Osterloh, Carsten Bellon, Stefan Hohendorf, Sanjeevareddy Kolkoori, Norma Wrobel, Amélie Nusser, Markus Freitag, Thomas Bücherl, Doron Bar, Ilan Mor, Noam Tamin, Ruth Weiss-Babai, Benjamin Bromberger, Volker Dangendorf, Kai Tittelmeier

[PDF (647 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006768/pdf?md5=99a5fe301c9926f9cd0c30bbeacca2ce&pid=1-s2.0-S1875389215006768-main.pdf)

[High Resolution Neutron Radiography and Tomography of Hydrided Zircaloy-4 Cladding Materials](http://www.sciencedirect.com/science/article/pii/S187538921500677X)

Pages 478-482

Tyler Smith, Hassina Bilheux, Holly Ray, Jean-Christophe Bilheux, Yong Yan

[PDF (1635 K)](http://www.sciencedirect.com/science/article/pii/S187538921500677X/pdf?md5=6c3c343e4dccd41c39c5855e3596028d&pid=1-s2.0-S187538921500677X-main.pdf)

[Neutron Radiography of Irradiated Nuclear Fuel at Idaho National Laboratory](http://www.sciencedirect.com/science/article/pii/S1875389215006781)

Pages 483-490

Aaron E. Craft, Daniel M. Wachs, Maria A. Okuniewski, David L. Chichester, Walter J. Williams, Glen C. Papaioannou, Andrew T. Smolinski

[PDF (1117 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006781/pdf?md5=da39cebfe36d9ee93370d04839ef34a6&pid=1-s2.0-S1875389215006781-main.pdf)

[Design and Characterization of a Hydride-based Hydrogen Storage Container for Neutron Imaging Studies](http://www.sciencedirect.com/science/article/pii/S1875389215006793)

Pages 491-495

A. Baruj, M. Ardito, J. Marín, F. Sánchez, E.M. Borzone, G. Meyer

[PDF (1519 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006793/pdf?md5=760104edd2ae91398c8f491101d610c8&pid=1-s2.0-S1875389215006793-main.pdf)

[Experimental Investigation of Preferential Flow in a Near-saturated Intact Soil Sample](http://www.sciencedirect.com/science/article/pii/S187538921500680X)

Pages 496-502

Michal Snehota, Vladimira Jelinkova, Jan Sacha, Martina Frycova, Milena Cislerova, Peter Vontobel, Jan Hovind

[PDF (1003 K)](http://www.sciencedirect.com/science/article/pii/S187538921500680X/pdf?md5=93705c83078a2cad0df63a8359ce559a&pid=1-s2.0-S187538921500680X-main.pdf)

[Visualization and Measurement of Adsorption/Desorption Process of Ethanol in Activated Carbon Adsorber](http://www.sciencedirect.com/science/article/pii/S1875389215006811)

Pages 503-508

Hitoshi Asano, Kenta Murata, Nobuyuki Takenaka, Yasushi Saito

[PDF (2175 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006811/pdf?md5=dc73f4fb043b75e4c548c18948d72b93&pid=1-s2.0-S1875389215006811-main.pdf)

[Full-field Measurements of Strain Localisation in Sandstone by Neutron Tomography and 3D-Volumetric Digital Image Correlation](http://www.sciencedirect.com/science/article/pii/S1875389215006823)

Pages 509-515

E. Tudisco, S.A. Hall, E.M. Charalampidou, N. Kardjilov, A. Hilger, H. Sone

[PDF (3548 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006823/pdf?md5=28af764ff00d2596432a070bc5532bd4&pid=1-s2.0-S1875389215006823-main.pdf)

[Quantification of Water Content Across a Cement-clay Interface Using High Resolution Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006835)

Pages 516-523

A. Shafizadeh, T. Gimmi, L. Van Loon, A. Kaestner, E. Lehmann, U.K. Maeder, S.V. Churakov

[PDF (2047 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006835/pdf?md5=bc040084aca2187dcc4f1e56fa83b15c&pid=1-s2.0-S1875389215006835-main.pdf)

[Quantification of Water Absorption and Transport in Parchment](http://www.sciencedirect.com/science/article/pii/S1875389215006847)

Pages 524-529

Susan N. Herringer, Hassina Z. Bilheux, Greg Bearman

[PDF (1294 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006847/pdf?md5=b797c884bf4f9cb1834df79e386e905f&pid=1-s2.0-S1875389215006847-main.pdf)

[Water and Air Redistribution within a Dual Permeability Porous System Investigated Using Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389215006859)

Pages 530-536

Jan Sacha, Vladimira Jelinkova, Michal Snehota, Peter Vontobel, Jan Hovind, Milena Cislerova

[PDF (822 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006859/pdf?md5=46b8de5152f9c20f906df279046932e7&pid=1-s2.0-S1875389215006859-main.pdf)

[The Neutron Tomography Studies of the Rocks from the Kola Superdeep Borehole](http://www.sciencedirect.com/science/article/pii/S1875389215006860)

Pages 537-541

S.E. Kichanov, D.P. Kozlenko, T.I. Ivankina, A.V. Rutkauskas, E.V. Lukin, B.N. Savenko

[PDF (1918 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006860/pdf?md5=69a4bcbe93bcf374716cf4f2ba3eb6a9&pid=1-s2.0-S1875389215006860-main.pdf)

[Using Neutron Radiography to Quantify Water Transport and the Degree of Saturation in Entrained Air Cement Based Mortar](http://www.sciencedirect.com/science/article/pii/S1875389215006872)

Pages 542-550

Catherine L. Lucero, Dale P. Bentz, Daniel S. Hussey, David L. Jacobson, W. Jason Weiss

[PDF (669 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006872/pdf?md5=4a27b4c36f4ce4f4eda1818f71460bcf&pid=1-s2.0-S1875389215006872-main.pdf)

[Time-resolved Fast Neutron Radiography of Air-water Two-phase Flows](http://www.sciencedirect.com/science/article/pii/S1875389215006884)

Pages 551-555

Robert Zboray, Volker Dangendorf, Ilan Mor, Kai Tittelmeier, Benjamin Bromberger, Horst-Michael Prasser

[PDF (1587 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006884/pdf?md5=8f2de7cdf48285957ce6101d0598d26d&pid=1-s2.0-S1875389215006884-main.pdf)

[Measurement of Coolant in a Flat Heat Pipe Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006896)

Pages 556-563

Kei Mizuta, Yasushi Saito, Takashi Goshima, Toshio Tsutsui

[PDF (4401 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006896/pdf?md5=efe02a9c127c6b394f27da781b155025&pid=1-s2.0-S1875389215006896-main.pdf)

[In-situ Neutron Tomography on Mixing Behavior of Supercritical Water and Room Temperature Water in a Tubular Flow Reactor](http://www.sciencedirect.com/science/article/pii/S1875389215006902)

Pages 564-569

Seiichi Takami, Ken-ichi Sugioka, Kyohei Ozawa, Takao Tsukada, Tadafumi Adschiri, Katsumi Sugimoto, Nobuyuki Takenaka, Yasushi Saito

[PDF (5148 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006902/pdf?md5=0bc5b0ce7ddb271fce608b79d8ece407&pid=1-s2.0-S1875389215006902-main.pdf)

[Hybrid Two-phase Flow Measurements in a Narrow Channel Using Neutron Radiography and Liquid Film Sensor](http://www.sciencedirect.com/science/article/pii/S1875389215006914)

Pages 570-576

Daisuke Ito, Yasushi Saito, Yuji Kawabata

[PDF (2783 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006914/pdf?md5=708a2c3ac82c17a39222265baa7c460f&pid=1-s2.0-S1875389215006914-main.pdf)

[Visualization of Hydrazine Decomposition in a Catalyst Bed by Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006926)

Pages 577-582

Daisuke Ito, Yasushi Saito, Hideshi Kagawa, Taiichi Nagata, Tadashi Masuoka, Hirohide Ikeda, Yuji Kawabata

[PDF (2665 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006926/pdf?md5=b1462367af17d6b012eeb471c2a3522f&pid=1-s2.0-S1875389215006926-main.pdf)

[Radiometric Investigation of Water Vapour Movement in Wood-based Composites by Means of Cold and Thermal Neutrons](http://www.sciencedirect.com/science/article/pii/S1875389215006938)

Pages 583-592

K. Solbrig, K. Frühwald, J.B. Ressel, D. Mannes, B. Schillinger, M. Schulz

[PDF (2255 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006938/pdf?md5=395c9d040667f5fbadf44154fab0a5a5&pid=1-s2.0-S1875389215006938-main.pdf)

[Visualization of Bubble Behavior in a Packed Bed of Spheres Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S187538921500694X)

Pages 593-598

Daisuke Ito, Yasushi Saito

[PDF (2616 K)](http://www.sciencedirect.com/science/article/pii/S187538921500694X/pdf?md5=a34a93142520eaea6fea6043040fccd3&pid=1-s2.0-S187538921500694X-main.pdf)

[The Influence of the Heating Condition on the Void Fraction in a Boiling Channel](http://www.sciencedirect.com/science/article/pii/S1875389215006951)

Pages 599-606

H. Umekawa, S. Nakamura, S. Fujiyoshi, T. Ami, M. Ozawa, Y. Saito, D. Ito

[PDF (678 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006951/pdf?md5=9e32c3227d7179686c32942e1643a91c&pid=1-s2.0-S1875389215006951-main.pdf)

[Visualization of Water Accumulation Process in Polymer Electrolyte Fuel Cell Using Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389215006963)

Pages 607-611

Hideki Murakawa, Katsumi Sugimoto, Nobuki Kitamura, Masataka Sawada, Hitoshi Asano, Nobuyuki Takenaka, Yasushi Saito

[PDF (1400 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006963/pdf?md5=d5fd1697179f6f3858ce0e15f951c44e&pid=1-s2.0-S1875389215006963-main.pdf)

[First Imaging Experiment of a Lithium Ion Battery by a Pulsed Neutron Beam at J-PARC/MLF/BL09](http://www.sciencedirect.com/science/article/pii/S1875389215006975)

Pages 612-618

Koichi Kino, Masao Yonemura, Yoshiaki Kiyanagi, Yoshihisa Ishikawa, Joseph. Don. Parker, Toru Tanimori, Takashi Kamiyama

[PDF (4715 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006975/pdf?md5=8d46c3c26cc71e95701004eea15cb6d3&pid=1-s2.0-S1875389215006975-main.pdf)

[Fuel Cell Research with Neutron Imaging at Helmholtz Centre Berlin](http://www.sciencedirect.com/science/article/pii/S1875389215006987)

Pages 619-627

I. Manke, H. Markötter, T. Arlt, Ch. Tötzke, M. Klages, J. Haußmann, S. Enz, F. Wieder, J. Scholta, N. Kardjilov, A. Hilger, J. Banhart

[PDF (7432 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006987/pdf?md5=e3b204b0d0a6c4b01d9f0c754181d1ac&pid=1-s2.0-S1875389215006987-main.pdf)

[Reconstructing the Auditory Apparatus of Therapsids by Means of Neutron Tomography](http://www.sciencedirect.com/science/article/pii/S1875389215006999)

Pages 628-635

Michael Laaß, Burkhard Schillinger

[PDF (933 K)](http://www.sciencedirect.com/science/article/pii/S1875389215006999/pdf?md5=9cab3bd104489cb78726b5b9ebf5aebf&pid=1-s2.0-S1875389215006999-main.pdf)

[Non-destructive Investigation of “The Violinist” a Lead Sculpture by Pablo Gargallo, Using the Neutron Imaging Facility NEUTRA in the Paul Scherrer Institute](http://www.sciencedirect.com/science/article/pii/S1875389215007002)

Pages 636-645

Alex Masalles, Eberhard Lehmann, David Mannes

[PDF (565 K)](http://www.sciencedirect.com/science/article/pii/S1875389215007002/pdf?md5=a062f5f014d58e7403808dda06d2bce0&pid=1-s2.0-S1875389215007002-main.pdf)

[Thermal Neutron Tomography for Cultural Heritage at INR](http://www.sciencedirect.com/science/article/pii/S1875389215007014)

Pages 646-652

Marin Dinca, Dragos Mandescu

[PDF (3316 K)](http://www.sciencedirect.com/science/article/pii/S1875389215007014/pdf?md5=83771537c5814954cfa64f02e5655d1f&pid=1-s2.0-S1875389215007014-main.pdf)

[Combined Neutron and X-ray Imaging for Non-invasive Investigations of Cultural Heritage Objects](http://www.sciencedirect.com/science/article/pii/S1875389215007026)

Pages 653-660

D. Mannes, F. Schmid, J. Frey, K. Schmidt-Ott, E. Lehmann

[PDF (6923 K)](http://www.sciencedirect.com/science/article/pii/S1875389215007026/pdf?md5=e3aafdf76374077176350faf6beff0dc&pid=1-s2.0-S1875389215007026-main.pdf)

[**Review of Scientific Instruments**](http://scitation.aip.org/content/aip/journal/rsi)  **(2)**

[Time-resolved fast-neutron radiography of air-water two-phase flows in a rectangular channel by an improved detection system](http://arxiv.org/ftp/arxiv/papers/1504/1504.01919.pdf)

Robert Zboray, Volker Dangendorf, Ilan Mor, Benjamin Bromberger and Kai Tittelmeier

*Rev. Sci. Instrumen.* ***86****, 075103 (2015)*

[Neutron, fluorescence, and optical imaging: An in situ combination of complementary techniques](http://scitation.aip.org/content/aip/journal/rsi/86/9/10.1063/1.4931427)

[Wagner D](http://europepmc.org/search?page=1&query=AUTH:%22Wagner+D%22), [Börgardts M](http://europepmc.org/search?page=1&query=AUTH:%22B%C3%B6rgardts+M%22), [Grünzweig C](http://europepmc.org/search?page=1&query=AUTH:%22Gr%C3%BCnzweig+C%22), [Lehmann E](http://europepmc.org/search?page=1&query=AUTH:%22Lehmann+E%22), [Müller TJ](http://europepmc.org/search?page=1&query=AUTH:%22M%C3%BCller+TJ%22), [Egelhaaf SU](http://europepmc.org/search?page=1&query=AUTH:%22Egelhaaf+SU%22), [Hermes HE](http://europepmc.org/search?page=1&query=AUTH:%22Hermes+HE%22)

*Rev. Sci. Instrumen.  86(9):093706 2015), doi: 10.1063/1.4931427*

[**Scientific Reports**](http://europepmc.org/journals/1739/) **(2)**

[Gas Evolution in Operating Lithium-Ion Batteries Studied In Situ by Neutron Imaging](http://www.nature.com/articles/srep15627)

[Barbara Michalak](http://www.nature.com/articles/srep15627#auth-1), [Heino Sommer](http://www.nature.com/articles/srep15627#auth-2), [David Mannes](http://www.nature.com/articles/srep15627#auth-3), [Anders Kaestner](http://www.nature.com/articles/srep15627#auth-4), [Torsten Brezesinski](http://www.nature.com/articles/srep15627#auth-5) & [Jürgen Janek](http://www.nature.com/articles/srep15627#auth-6)

*Scientific Reports 5: 15627 (2015)*

[Quantitative Neutron Dark-field Imaging through Spin-Echo Interferometry.](http://worldwidescience.org/wws/desktop/en/ostiblue/service/link/track?searchId=e8baaf1f-5ad0-40ed-a619-28f8c6984c5b&type=RESULT&collectionCode=UKPMC-EN&redirectUrl=http%3A%2F%2Feuropepmc.org%2Fabstract%2FMED%2F26560644)

Strobl M; Sales M; Plomp J; Bouwman WG; Tremsin AS; Kaestner A; Pappas C; Habicht K

*Scientific Reports 5:16576, DOI:*[*10.1038/srep16576*](http://doi.org/10.1038/srep16576)(*2015)*

[**Water Resources Research**](http://agupubs.onlinelibrary.wiley.com/agu/journal/10.1002/%28ISSN%291944-7973/)**(1)**

[Water and entrapped air redistribution in heterogeneous sand sample: Quantitative neutron imaging of the process](http://www.readcube.com/articles/10.1002/2014WR015432?r3_referer=wol&tracking_action=preview_click&show_checkout=1&purchase_referrer=onlinelibrary.wiley.com&purchase_site_license=LICENSE_DENIED)

Michal Snehota, Vladimira Jelinkova, Martina Sobotkova, Jan Sacha, Peter Vontobel and Jan Hovind

*Water Resources Research Vol. 51, Issue 2, pp 1359-1371*

*Article first published online: 2 FEB 2015, DOI: 10.1002/2014WR015432*

*http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1944-7973/issues*

[**Conference Proceedings**](http://europepmc.org/journals/1739/) **(4)**

 24th IIR International Congress of Refrigeration, Yokohama, Japan, 20150816, 20150822

[Neutron Imaging Calibration to Measure Void Fraction](http://www.osti.gov/scitech/biblio/1214011)

Geoghegan, Patrick J; Bilheux, Hassina Z; Sharma, Vishaldeep; Fricke, Brian A

40th Workshop on Geothermal Reservoir Engineering, Stanford, Ca, USA, 20150126, 20150128

[Particle Imaging Velocimetry Technique Development for Laboratory Measurement of Fracture Flow inside a Pressure Vessel using Neutron Imaging](http://www.osti.gov/scitech/biblio/1185881)

Polsky, Yarom; Bingham, Philip R; Bilheux, Hassina Z; Carmichael, Justin R

3rd International Technical Meeting on Small Reactors, November 5-7 2014, Ottawa, Ontario, Canada.

[Materials Research with Neutron Beams from a Research Reactor](https://www.etde.org/etdeweb/details.jsp?query_id=1&page=0&osti_id=22396630)

Root, J.; Banks, D

Conference on Application of Accelerators in Research and Industry, San Antonio, TX, USA, 20140525, 20140530

[Recent Fast Neutron Imaging Measurements with the Fieldable Nuclear Materials Identification System](http://www.osti.gov/scitech/biblio/1185557)

Wellington, Tracey; Palles, Blake A; Mullens, James Allen; Mihalczo, John T; Archer, Daniel E; Thompson, Thad; Britton Jr, Charles L; Ezell, N Dianne Bull; Ericson, Milton Nance; Farquhar, Ethan; Lind, Randall F; Carter, Jake

**2014**

Total number of papers listed: 107

[**Acta Materialia**](http://www.sciencedirect.com/science/journal/13596454) **(1)**

[Three-dimensional imaging of hydrogen blister in iron with neutron tomography](http://www.sciencedirect.com/science/article/pii/S1359645414004546)

Griesche A., Dabah E., Kannengiesser Th., Kardjilov N., Hilger A., Manke I.

*Acta Mater. 78 (2014) 14-22*

[**Advanced Materials**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291521-4095)  **(1)**

[3D mapping of crystallographic phase distribution using energy-selective neutron tomography](http://onlinelibrary.wiley.com/doi/10.1002/adma.201400192/abstract)

[Woracek, R](http://europepmc.org/search?page=1&query=AUTH:%22Woracek+R%22&restrict=All+results)., [Penumadu, D](http://europepmc.org/search?page=1&query=AUTH:%22Penumadu+D%22&restrict=All+results)., [Kardjilov, N](http://europepmc.org/search?page=1&query=AUTH:%22Kardjilov+N%22&restrict=All+results)., [Hilger, A](http://europepmc.org/search?page=1&query=AUTH:%22Hilger+A%22&restrict=All+results)., [Boin, M](http://europepmc.org/search?page=1&query=AUTH:%22Boin+M%22&restrict=All+results)., [Banhart, J](http://europepmc.org/search?page=1&query=AUTH:%22Banhart+J%22&restrict=All+results)., [Manke. I](http://europepmc.org/search?page=1&query=AUTH:%22Manke+I%22&restrict=All+results)

[*Advanced Materials*](http://europepmc.org/search;jsessionid=g8An8afIrcAkZUB37jEZ.0?page=1&query=JOURNAL:%22Adv+Mater%22)*, 2014, 26(24):4069-4073*

[**Advances in Water Resources**](http://www.sciencedirect.com/science/journal/03091708) **(1)**

[Multiple pixel-scale soil water retention curves quantified by neutron radiography](http://www.sciencedirect.com/science/article/pii/S0309170813002480)

[Kang, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kang,+M&fullauthor=Kang,%20M.&charset=UTF-8&db_key=PHY); [Perfect, E.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Perfect,+E&fullauthor=Perfect,%20E.&charset=UTF-8&db_key=PHY); [Cheng, C. L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Cheng,+C&fullauthor=Cheng,%20C.%20L.&charset=UTF-8&db_key=PHY); [Bilheux, H. Z.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bilheux,+H&fullauthor=Bilheux,%20H.%20Z.&charset=UTF-8&db_key=PHY); [Lee, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Lee,+J&fullauthor=Lee,%20J.&charset=UTF-8&db_key=PHY); [Horita, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Horita,+J&fullauthor=Horita,%20J.&charset=UTF-8&db_key=PHY); [Warren, J. M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Warren,+J&fullauthor=Warren,%20J.%20M.&charset=UTF-8&db_key=PHY)

*Advances in Water Resources, Volume 65, p. 1-8, 2014*

[**The African Review of Physics**](http://www.aphysrev.org/index.php/aphysrev) **(1)**

[Characterization of single layer wound healing dressing by using different techniques](http://www.aphysrev.org/index.php/aphysrev/article/view/863/356)

M. K. Alam, Shariful Islam, S. Saha, M. N. Islam, Mubarak A. Khan, Jahid M M Islam and S. M. Azharul Islam

*The African Review of Physics, 9(2014)* 95-102

[**AIChE Journal**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291547-5905) **(1)**

[Neutron Radiography and Numerical Simulation of Mixing Behavior in a Reactor for Supercritical Hydrothermal Synthesis](http://onlinelibrary.wiley.com/doi/10.1002/aic.14313/abstract)

K. Sugioka, K. Ozawa, T. Tsukada, S. Takami, T. Adschiri, K. Sugimoto, N. Takenaka,

Y. Saito

*AIChE J., 60, 1168–1175, 2014*

[**AIP Conference Proceedings**](http://scitation.aip.org/content/aip/proceeding/aipcp)**(2)**

[Study of pipe thickness loss using a neutron radiography method](http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4866114)

Mohamed, Abdul Aziz; Wahab, Aliff Amiru Bin; Yazid, Hafizal B.; Ahmad, Megat Harun Al Rashid B. Megat; Jamro, Rafhayudi B.; Azman, Azraf B.; Zin, Muhamad Rawi Md; Idris, Faridah Mohamad

*AIP Conference Proceedings, Volume 1584, 109, 2014*

[Manufacturing techniques studies of ceramics by neutron and γ-ray radiography](http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.4901773)

[Latini, R. M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Latini,+R&fullauthor=Latini,%20R.%20M.&charset=UTF-8&db_key=PHY); [Souza, M. I. S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Souza,+M&fullauthor=Souza,%20M.%20I.%20S.&charset=UTF-8&db_key=PHY); [Almeida, G. L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Almeida,+G&fullauthor=Almeida,%20G.%20L.&charset=UTF-8&db_key=PHY); [Bellido, A. V. B.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bellido,+A&fullauthor=Bellido,%20A.%20V.%20B.&charset=UTF-8&db_key=PHY)

*AIP Conference Proceedings, Volume 1625, Issue 1, p.106-110, 2014*

[***The Analyst***](http://pubs.rsc.org/en/Content/ArticleLanding/2013/AN/c3an00985h#!divAbstract)***(1)***

[Cold neutron diffraction contrast tomography of polycrystalline material](http://europepmc.org/abstract/MED/25274183)

S [Peetermans](http://europepmc.org/search?page=1&query=AUTH:%22Peetermans+S%22&restrict=All+results), A [King](http://europepmc.org/search?page=1&query=AUTH:%22King+A%22&restrict=All+results), W [Ludwig](http://europepmc.org/search?page=1&query=AUTH:%22Ludwig+W%22&restrict=All+results), P [Reischig](http://europepmc.org/search?page=1&query=AUTH:%22Reischig+P%22&restrict=All+results), EH [Lehmann](http://europepmc.org/search?page=1&query=AUTH:%22Lehmann+EH%22&restrict=All+results)

[*The Analyst*](http://europepmc.org/search?page=1&query=JOURNAL:%22Analyst%22)*, 139(22):5765-5771, 2014*

[**Analytical Methods**](http://pubs.rsc.org/en/journals/journalissues/ay#!recentarticles&all)**(1)**

[Neutron tomography of ancient lead artefacts](http://pubs.rsc.org/en/content/articlelanding/2014/ay/c3ay41967c#!divAbstract)

Triolo, R., Lo Celso, F., Tisseyre, P., Kardjilov, N., Wieder, F., Hilger, A., Manke, I.

*Analytical Methods, 6, 2390-2394, 2014*

[**Angewandte Chemie Int Edition**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291521-3773) **(1)**

[In Situ Quantification and Visualization of Lithium Transport with Neutrons](http://onlinelibrary.wiley.com/doi/10.1002/anie.201404197/abstract)

Danny X. Liu, Jinghui Wang, Pan Ke, Jie Qiu, Marcello Canova, Lei R. Cao and Anne C. Co *Angewandte Chemie International Edition 53, no. 36, 9498 – 9502, 2014*

[**Annals of Botany**](http://europepmc.org/journals/324/) **(1)**

A multi-imaging approach to study the root-soil interface

N. [Rudolph-Mohr](http://europepmc.org/search;jsessionid=tDqmXDjh3rslbvMJHDnh.0?page=1&query=AUTH:%22Rudolph-Mohr+N%22) , P. [Vontobel](http://europepmc.org/search;jsessionid=tDqmXDjh3rslbvMJHDnh.0?page=1&query=AUTH:%22Vontobel+P%22), S.E. [Oswald](http://europepmc.org/search;jsessionid=tDqmXDjh3rslbvMJHDnh.0?page=1&query=AUTH:%22Oswald+SE%22)

[*Annals of Botany*](http://europepmc.org/search;jsessionid=tDqmXDjh3rslbvMJHDnh.0?page=1&query=JOURNAL:%22Ann+Bot%22)*, 114(8):1779-1787, 2014*

[**Applied Physics: A**](http://link.springer.com/journal/339) **(2)**

[Terahertz, X-ray and neutron computed tomography of an Eighteenth Dynasty Egyptian sealed pottery](http://link.springer.com/article/10.1007/s00339-014-8779-3)

[E. Abraham](http://link.springer.com/search?facet-author=%22E.+Abraham%22), [M. Bessou](http://link.springer.com/search?facet-author=%22M.+Bessou%22), [A. Ziéglé](http://link.springer.com/search?facet-author=%22A.+Zi%C3%A9gl%C3%A9%22), [M.-C. Hervé](http://link.springer.com/search?facet-author=%22M.-C.+Herv%C3%A9%22), [L. Szentmiklósi](http://link.springer.com/search?facet-author=%22L.+Szentmikl%C3%B3si%22), [Z. S. Kasztovszky](http://link.springer.com/search?facet-author=%22Z.+S.+Kasztovszky%22), [Z. Kis](http://link.springer.com/search?facet-author=%22Z.+Kis%22), [M. Menu](http://link.springer.com/search?facet-author=%22M.+Menu%22)

*Applied Physics: A, November 2014, Volume 117,*[*Issue 3*](http://link.springer.com/journal/339/117/3/page/1)*, pp 963-972*

[Morphological reconstruction of Roman arrowheads from Iulia Concordia: Italy](http://link.springer.com/article/10.1007/s00339-014-8511-3)

[Salvemini, Filomena](http://adsabs.harvard.edu/cgi-bin/author_form?author=Salvemini,+F&fullauthor=Salvemini,%20Filomena&charset=UTF-8&db_key=PHY); [Grazzi, Francesco](http://adsabs.harvard.edu/cgi-bin/author_form?author=Grazzi,+F&fullauthor=Grazzi,%20Francesco&charset=UTF-8&db_key=PHY); [Angelini, Ivana](http://adsabs.harvard.edu/cgi-bin/author_form?author=Angelini,+I&fullauthor=Angelini,%20Ivana&charset=UTF-8&db_key=PHY); [Vontobel, Peter](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vontobel,+P&fullauthor=Vontobel,%20Peter&charset=UTF-8&db_key=PHY); [Vigoni, Alberto](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vigoni,+A&fullauthor=Vigoni,%20Alberto&charset=UTF-8&db_key=PHY); [Artioli, Gilberto](http://adsabs.harvard.edu/cgi-bin/author_form?author=Artioli,+G&fullauthor=Artioli,%20Gilberto&charset=UTF-8&db_key=PHY); [Zoppi, Marco](http://adsabs.harvard.edu/cgi-bin/author_form?author=Zoppi,+M&fullauthor=Zoppi,%20Marco&charset=UTF-8&db_key=PHY)

*Applied Physics: A, November 2014, Volume 117,*[*Issue 3*](http://link.springer.com/journal/339/117/3/page/1)*, pp 1227-1240*

[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/aip/09698043) **(6)**

[The new facility for neutron tomography of IPEN-CNEN/SP and its potential to investigate hydrogenous substances](http://www.sciencedirect.com/science/article/pii/S0969804313004077)

R.M. Schoueri, C. Domienikan, F. de Toledo, M.L.G. Andrade, M.A. Stanojev Pereira, R. Pugliesi

*Applied Radiation and Isotopes*, *Volume 84*, *February 2014*, *Pages 22-26*

[Application of Neutron Tomography in Culture Heritage Research](http://www.sciencedirect.com/science/article/pii/S096980431300448X#cor1)

[T. Mongy](http://www.sciencedirect.com/science/article/pii/S096980431300448X)

[*Applied Radiation and Isotopes*](http://www.sciencedirect.com/science/journal/09698043)[*Volume 85*](http://www.sciencedirect.com/science/journal/09698043/85/supp/C)*, February 2014, Pages 54–59*

[Conceptual design and optimization of a plastic scintillator array for 2D tomography using a compact D–D fast neutron generator](http://www.sciencedirect.com/science/article/pii/S0969804314000086)

Robert Adams, Robert Zboray, Marco Cortesi, Horst-Michael Prasser

*Applied Radiation and Isotopes*, *Volume 86*, *April 2014*, *Pages 63-70*

[Study on detecting spatial distribution of neutrons and gamma rays using a multi-imaging plate system](http://www.sciencedirect.com/science/article/pii/S0969804314000049)

Kenichi Tanaka, Yoshinori Sakurai, Satoru Endo, Jun Takada

[*Applied Radiation and Isotopes*](http://www.sciencedirect.com.ezproxye.bham.ac.uk/science/journal/09698043)*,* [*Volume 88*](http://www.sciencedirect.com.ezproxye.bham.ac.uk/science/journal/09698043/88/supp/C)*, June 2014, Pages 143–146*

[Image enhancement using MCNP5 code and MATLAB in neutron radiography](http://www.sciencedirect.com/science/article/pii/S0969804314000499)

Montaser Tharwat, Nader Mohamed, T. Mongy

*Applied Radiation and Isotopes*, *Volume 89*, *July 2014*, *Pages 30-36*

[High-frame rate imaging of two-phase flow in a thin rectangular channel using fast neutrons](http://www.sciencedirect.com/science/article/pii/S0969804314001249)

R. Zboray, I. Mor, V. Dangendorf, M. Stark, K. Tittelmeier, M. Cortesi, R. Adams

*Applied Radiation and Isotopes*, *Volume 90*, *August 2014*, *Pages 122-131*

[**ArXiv.org**](file:///C%3A%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5Carxiv.org)**(1)**

[Development of a novel neutron detection technique by using a boron layer coating a Charge Coupled Device](http://worldwidescience.org/wws/link.html?collectionCode=WWS-ARXIV&searchId=da3d8f3d-d234-4797-8b85-5b258083192c&type=RESULT&redirectUrl=http%3A%2F%2Farxiv.org%2Fpdf%2F1408.3263v1)

Juan Jerónimo Blostein, Juan Estrada, Aureliano Tartaglione, Miguel Sofo

Haro, Guillermo Fernández Moroni and Gustavo Cancelo

*ArXiv.org 08/2014*

[**Bangladesh Journal of Scientific and Industrial Research**](http://www.banglajol.info/index.php/BJSIR) **(1)**

[Quality Study of Hand Made Brick-DK Using Neutron Radiography Technique](http://www.banglajol.info/index.php/BJSIR/article/view/18273)

M. K. Alam, M. R. Islam, S. Saha, M.N. Islam and S. M. Azaharul Islam

*Bangladesh Journal of Scientific and Industrial Research, 48(4) (2014)* pp. 237-246

[**Earth-Science Reviews**](http://www.sciencedirect.com/science/journal/00128252)**(1)**

[Neutron imaging of hydrogen-rich fluids in geomaterials and engineered porous media: A review](http://www.sciencedirect.com/science/article/pii/S0012825213002079)

[E. Perfect](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [C.-L. Cheng](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [M. Kang](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [H.Z. Bilheux](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [J.M. Lamanna](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [M.J. Gragg](http://www.sciencedirect.com/science/article/pii/S0012825213002079), [D.M. Wright](http://www.sciencedirect.com/science/article/pii/S0012825213002079)

*Earth Science Reviews, Volume 129, p. 120-135*

[**Energy**](http://www.sciencedirect.com/science/journal/03605442/68/supp/C)**(1)**

[A novel approach coupling neutron imaging and numerical modelling for the analysis of the impact of water on fuel cell performance](http://www.sciencedirect.com/science/article/pii/S036054421400276X)

Iranzo, A., Boillat, P., Oberholzer, P., Guerra, J.

*Energy 68, pp. 971-981, 2014*

[**The European Physical Journal Plus**](http://link.springer.com/journal/13360)**(1)**

[Characterization of European sword blades through neutron imaging techniques](http://link.springer.com/article/10.1140/epjp/i2014-14202-4)

[Salvemini, F.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Salvemini,+F&fullauthor=Salvemini,%20F.&charset=UTF-8&db_key=PHY); [Grazzi, F.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Grazzi,+F&fullauthor=Grazzi,%20F.&charset=UTF-8&db_key=PHY); [Peetermans, S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Peetermans,+S&fullauthor=Peetermans,%20S.&charset=UTF-8&db_key=PHY); [Gener, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Gener,+M&fullauthor=Gener,%20M.&charset=UTF-8&db_key=PHY); [Lehmann, E. H.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Lehmann,+E&fullauthor=Lehmann,%20E.%20H.&charset=UTF-8&db_key=PHY); [Zoppi, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Zoppi,+M&fullauthor=Zoppi,%20M.&charset=UTF-8&db_key=PHY)

*The European Physical Journal Plus, Volume 129, article id. #202, 8 pp*

[**Experimental Heat Transfer**](http://www.tandfonline.com/toc/ueht20/current#.UssSrLSAffg)**(1)**

[Moisture Migration in Wood Under Heating Measured by Thermal Neutron Radiography](http://www.tandfonline.com/doi/abs/10.1080/08916152.2012.757677#.UssTALSAffg)

[M. Sedighi Gilani](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Gilani%2C+M+S%29), [P. Vontobel](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Vontobel%2C+P%29), [E. Lehmann](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Lehmann%2C+E%29), [J. Carmeliet](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Carmeliet%2C+J%29), [D. Derome](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Derome%2C+D%29)

[*Experimental Heat Transfer*](http://www.tandfonline.com/toc/ueht20/current) *Volume 27, Issue 2, March 2014, pages 160-179*

*Published online: 5 Nov 2013*

[**IEEE Transactions on Nuclear Science**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23)**(1)**

[Feasibility of Small Animal Anatomical and Functional Imaging with Neutrons: A Monte Carlo Simulation Study](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=6869051)

[Medich, David C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Medich,+D&fullauthor=Medich,%20David%20C.&charset=UTF-8&db_key=PHY); [Currier, Blake H.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Currier,+B&fullauthor=Currier,%20Blake%20H.&charset=UTF-8&db_key=PHY); [Karellas, Andrew](http://adsabs.harvard.edu/cgi-bin/author_form?author=Karellas,+A&fullauthor=Karellas,%20Andrew&charset=UTF-8&db_key=PHY)

*IEEE Transactions on Nuclear Science, vol. 61, issue 5, pp. 2480-2488, 2014*

[**International Journal of Hydrogen Energy**](http://www.sciencedirect.com/science/journal/03603199)**(2)**

[Validation of a three dimensional PEM fuel cell CFD model using local liquid water distributions measured with neutron imaging](http://www.sciencedirect.com/science/article/pii/S0360319914005138)

[Alfredo Iranzo](http://www.sciencedirect.com/science/article/pii/S0360319914005138), [Pierre Boillat](http://www.sciencedirect.com/science/article/pii/S0360319914005138), [Felipe Rosa](http://www.sciencedirect.com/science/article/pii/S0360319914005138)

*International Journal of Hydrogen energy* [*Volume 39*](http://www.sciencedirect.com/science/journal/03603199/39/13) (*13), pp. 7089–7099, 2014*

[Liquid water distribution patterns featuring back-diffusion transport in a PEM fuel cell with neutron imaging](http://www.sciencedirect.com/science/article/pii/S0360319914023428)

Iranzo, A., Boillat, P.

*International Journal of Hydrogen Energy Volume 39 (30), pp. 17240-17245, 2014*

[**International Journal of Materials Research**](http://www.hanser-elibrary.com/loi/ijmr)**(2)**

[Imaging of hydrogen in steels using neutrons](http://www.hanser-elibrary.com/doi/abs/10.3139/146.111043)

Griesche, Axel; Dabah, Eitan; Kannengiesser, Thomas; Kardjilov, Nikolay; Hilger, Andre; Manke, Ingo

*International Journal of Materials Research; Vol. 105; No. 7; pp. 640-644, 2014*

[Materials research and non-destructive testing using neutron tomography methods](http://www.hanser-elibrary.com/doi/abs/10.3139/146.111053)

Eberhard H. Lehmann, Anders Kaestner, Christian Grünzweig, David Mannes, Peter Vontobel, and Steven Peetermans

*International Journal of Materials Research: Vol. 105, No. 7, pp. 664-670, 2014*

|  |
| --- |
|  |
|  |

[**International Journal of Thermal Sciences**](http://www.journals.elsevier.com/international-journal-of-thermal-sciences/)**(1)**

[Experimental and analytical study of a loop heat pipe at a positive elevation using neutron radiography](http://www.sciencedirect.com/science/article/pii/S1290072913002469)
Po-Ya Abel Chuang, John M. Cimbala, Jack S. Brenizer

*International Journal of Thermal Sciences*, *Volume 77*, *March 2014*, *Pages 84-95*

[**Inverse Problems**](http://iopscience.iop.org/0266-5611) **(1)**

[A novel technique to incorporate structural prior information into multi-modal tomographic reconstruction](http://iopscience.iop.org/0266-5611/30/6/065004/)

Daniil Kazantsev, Sébastien Ourselin, Brian F Hutton, Katherine J Dobson, Anders P Kaestner, William R B Lionheart, Philip J Withers, Peter D Lee and Simon R Arridge

Inverse Problems *30 No. 6, id065004*

[**Journal of Applied Physics**](http://scitation.aip.org/content/aip/journal/jap) **(1)**

[Data fusion in neutron and X-ray computed tomography](http://scitation.aip.org/content/aip/journal/jap/116/16/10.1063/1.4900515)

[Schrapp, Michael J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Schrapp,+M&fullauthor=Schrapp,%20Michael%20J.&charset=UTF-8&db_key=PHY); [Goldammer, Matthias](http://adsabs.harvard.edu/cgi-bin/author_form?author=Goldammer,+M&fullauthor=Goldammer,%20Matthias&charset=UTF-8&db_key=PHY); [Schulz, Michael](http://adsabs.harvard.edu/cgi-bin/author_form?author=Schulz,+M&fullauthor=Schulz,%20Michael&charset=UTF-8&db_key=PHY); [Issani, Siraj](http://adsabs.harvard.edu/cgi-bin/author_form?author=Issani,+S&fullauthor=Issani,%20Siraj&charset=UTF-8&db_key=PHY); [Bhamidipati, Suryanarayana](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bhamidipati,+S&fullauthor=Bhamidipati,%20Suryanarayana&charset=UTF-8&db_key=PHY); [Böni, Peter](http://adsabs.harvard.edu/cgi-bin/author_form?author=Boeni,+P&fullauthor=B%c3%b6ni,%20Peter&charset=UTF-8&db_key=PHY)

*Journal of Applied Physics, Volume 116, Issue 16, id.163104 (2014)*

[**Journal of Bangladesh Academy of Sciences**](http://www.banglajol.info/index.php/JBAS)**(1)**

[Internal Defects and Water Absorption Behavior of Environmentally Friendly Brick-MAB Using Film Neutron Radiography Technique](http://www.banglajol.info/index.php/JBAS/article/view/20197/13972)

M. K. Alam, M. R. Islam, S. Saha, M.N. Islam and S. M. Azaharul Islam.

*Journal of Bangladesh Academy of Sciences, 38(1) (2014) pp. 1-6*

[**Journal of Heat Transfer**](http://heattransfer.asmedigitalcollection.asme.org/issues.aspx) **(1)**

[Neutron Tomography of Lithium (Li) Menisci inside a Molybdenum (Mo) Heat Pipe](http://heattransfer.asmedigitalcollection.asme.org/article.aspx?articleID=1719266)

K. D. Kihm, B. Hight, E. Kirchoff, H. Yi, J. Rosenfeld, S. Rawal, D. Hussey, D. Jacobsen, H. Bilheux, L. Walker, S. Voisin, D. Pratt, and A. Swanson

*Journal of Heat Transfer - Photogallery, Vol.135, No. 8, 080902, August 2013*

[**Journal of Instrumentation**](http://iopscience.iop.org/1748-0221/) **(5)**

[Neutron radiography for the characterization of porous structure in degraded building stones](http://iopscience.iop.org/1748-0221/9/05/C05024/)

[Barone, G.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Barone,+G&fullauthor=Barone,%20G.&charset=UTF-8&db_key=PHY); [Crupi, V.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Crupi,+V&fullauthor=Crupi,%20V.&charset=UTF-8&db_key=PHY); [Longo, F.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Longo,+F&fullauthor=Longo,%20F.&charset=UTF-8&db_key=PHY); [Majolino, D.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Majolino,+D&fullauthor=Majolino,%20D.&charset=UTF-8&db_key=PHY); [Mazzoleni, P.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Mazzoleni,+P&fullauthor=Mazzoleni,%20P.&charset=UTF-8&db_key=PHY); [Raneri, S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Raneri,+S&fullauthor=Raneri,%20S.&charset=UTF-8&db_key=PHY); [Teixeira, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Teixeira,+J&fullauthor=Teixeira,%20J.&charset=UTF-8&db_key=PHY); [Venuti, V.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Venuti,+V&fullauthor=Venuti,%20V.&charset=UTF-8&db_key=PHY)

*Journal of Instrumentation, Volume 9, Issue 05, article id. C05024 (2014)*

[Modular pixelated detector system with the spectroscopic capability and fast parallel read-out](http://iopscience.iop.org/1748-0221/9/06/C06006/)

[Vavrik, D.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vavrik,+D&fullauthor=Vavrik,%20D.&charset=UTF-8&db_key=PHY); [Holik, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Holik,+M&fullauthor=Holik,%20M.&charset=UTF-8&db_key=PHY); [Jakubek, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Jakubek,+J&fullauthor=Jakubek,%20J.&charset=UTF-8&db_key=PHY); [Jakubek, M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Jakubek,+M&fullauthor=Jakubek,%20M.&charset=UTF-8&db_key=PHY); [Kraus, V.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kraus,+V&fullauthor=Kraus,%20V.&charset=UTF-8&db_key=PHY); [Krejci, F.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Krejci,+F&fullauthor=Krejci,%20F.&charset=UTF-8&db_key=PHY); [Soukup, P.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Soukup,+P&fullauthor=Soukup,%20P.&charset=UTF-8&db_key=PHY); [Turecek, D.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Turecek,+D&fullauthor=Turecek,%20D.&charset=UTF-8&db_key=PHY);[Vacik, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vacik,+J&fullauthor=Vacik,%20J.&charset=UTF-8&db_key=PHY); [Zemlicka, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Zemlicka,+J&fullauthor=Zemlicka,%20J.&charset=UTF-8&db_key=PHY)

*Journal of Instrumentation, Volume 9, Issue 06, article id. C06006 (2014)*

[Evaluation of two-dimensional multiwire neutron detector with individual line readout under pulsed neutron irradiation](http://iopscience.iop.org/1748-0221/9/11/C11019/)

K. Toh, T. Nakamura, K. Sakasai, K. Soyama, H. Yamagishi

[*Journal of Instrumentation*](http://iopscience.iop.org/1748-0221/)*,*[*Volume 9*](http://iopscience.iop.org/1748-0221/9)[*November 2014*](http://iopscience.iop.org/1748-0221/9/11)*, C11019*[*doi:10.1088/1748*](http://dx.doi.org/10.1088/1748-0221/9/11/C11019)

[Performance of a Micro-Strip Gas Chamber for event wise, high rate thermal neutron detection with accurate 2D position determination](http://iopscience.iop.org/1748-0221/9/12/P12004/)

B. Mindur, S. Alimov, T. Fiutowski, C. Schulz, T. Wilpert

*Journal of Instrumentation, Volume 9, Issue 12, 2014, article id. P12004*

[Digital fast neutron radiography of steel reinforcing bar in concrete](http://iopscience.iop.org/1748-0221/9/12/C12045/)

K. Mitton, A. Jones, M.J. Joyce

*Journal of Instrumentation, Volume 9, Issue 12, 2014, article id. C12045*

[**Journal of Low Temperature Physics**](http://link.springer.com/journal/10909)**(1)**

[Towards mega-pixel neutron imager using current-biased kinetic inductance detectors of Nb nanowires with 10B converter](http://link.springer.com/article/10.1007/s10909-014-1159-8)

[Ishida, Takekazu](http://adsabs.harvard.edu/cgi-bin/author_form?author=Ishida,+T&fullauthor=Ishida,%20Takekazu&charset=UTF-8&db_key=PHY); [Yoshioka, Naohito](http://adsabs.harvard.edu/cgi-bin/author_form?author=Yoshioka,+N&fullauthor=Yoshioka,%20Naohito&charset=UTF-8&db_key=PHY); [Narukami, Yoshito](http://adsabs.harvard.edu/cgi-bin/author_form?author=Narukami,+Y&fullauthor=Narukami,%20Yoshito&charset=UTF-8&db_key=PHY); [Shishido, Hiroaki](http://adsabs.harvard.edu/cgi-bin/author_form?author=Shishido,+H&fullauthor=Shishido,%20Hiroaki&charset=UTF-8&db_key=PHY); [Miyajima, Shigeyuki](http://adsabs.harvard.edu/cgi-bin/author_form?author=Miyajima,+S&fullauthor=Miyajima,%20Shigeyuki&charset=UTF-8&db_key=PHY); [Fujimaki, Akira](http://adsabs.harvard.edu/cgi-bin/author_form?author=Fujimaki,+A&fullauthor=Fujimaki,%20Akira&charset=UTF-8&db_key=PHY); [Miki, Shigehito](http://adsabs.harvard.edu/cgi-bin/author_form?author=Miki,+S&fullauthor=Miki,%20Shigehito&charset=UTF-8&db_key=PHY); [Wang, Zhen](http://adsabs.harvard.edu/cgi-bin/author_form?author=Wang,+Z&fullauthor=Wang,%20Zhen&charset=UTF-8&db_key=PHY); [Hidaka, Mutsuo](http://adsabs.harvard.edu/cgi-bin/author_form?author=Hidaka,+M&fullauthor=Hidaka,%20Mutsuo&charset=UTF-8&db_key=PHY)

*Journal of Low Temperature Physics, Volume 176, Issue 3-4, pp. 216-221*

[**Journal of Magnetism and Magnetic Materials**](http://www.sciencedirect.com/science/journal/03048853)**(1)**

[Radiography and tomography with polarized neutrons](http://www.sciencedirect.com/science/article/pii/S0304885313006914)

Wolfgang Treimer
*Journal of Magnetism and Magnetic Materials*, *Volume 350*, *January 2014*, *Pages 188-198*

[**Journal of Nondestructive Evaluation**](http://www.springer.com/materials/mechanics/journal/10921) **(1)**

[Detecting Internal Hot Corrosion of In-service Turbine Blades Using Neutron Tomography with Gd Tagging](http://link.springer.com/article/10.1007/s10921-014-0244-x)

Cheul Muu Sim, Hwa Suk Oh, TaeJoo Kim, Yoon Sang Lee, Yi Kyung Kim, Seung Seob Kwak, Young Ha Hwang

*J Nondestructive Evaluation, Volume 33,*[*Issue 4*](http://link.springer.com/journal/10921/33/4/page/1)*, pp 493-503 December 2014,*

[**Journal of Plant Nutrition and Soil Science**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291522-2624) **(1)**

[Reduced root water uptake after drying and rewetting](http://onlinelibrary.wiley.com/doi/10.1002/jpln.201300249/abstract)

[Zarebanadkouki M](http://europepmc.org/search?page=1&query=AUTH:%22Zarebanadkouki+M%22) and Carminati A

*Journal of Plant Nutrition and Soil Science, 177(2):227-236, 2014*

[**Journal of Physics Conference Series**](http://iopscience.iop.org/1742-6596) **(1)**

[Applications of a micro-pixel chamber (*μ*PIC) based, time-resolved neutron imaging detector at pulsed neutron beams](http://iopscience.iop.org/1742-6596/502/1/012048/)

J D Parker, M Harada, K Hattori, S Iwaki, S Kabuki, Y Kishimoto, H Kubo, S Kurosawa, Y Matsuoka, K Miuchi, T Mizumoto, H Nishimura, T Oku, T Sawano, T Shinohara, J-I Suzuki, A Takada, T Tanimori, K Ueno, M Ikeno, M Tanakaand T Uchida

J. Phys.: Conf. Ser. ***502****No. 1, id 012048, 2014*

[**Journal of Power Sources**](http://www.journals.elsevier.com/journal-of-power-sources/)**(1)**

[Spatially resolved in operando neutron scattering studies on Li-ion batteries](http://www.sciencedirect.com/science/article/pii/S0378775313011658)
A. Senyshyn, M.J. Mühlbauer, O. Dolotko, M. Hofmann, T. Pirling, H. Ehrenberg

*Journal of Power Sources*, *Volume 245*, *1 January 2014*, *Pages 678-683*

[**Journal of Radioanalytical and Nuclear Chemistry**](http://link.springer.com/journal/10967) **(1)**

[Design, testing and optimization of a neutron radiography system based on a Deuterium–Deuterium (D–D) neutron generator](http://link.springer.com/article/10.1007/s10967-013-2729-y)

[K. Bergaoui](http://link.springer.com/search?facet-author=%22K.+Bergaoui%22), [N. Reguigui](http://link.springer.com/search?facet-author=%22N.+Reguigui%22), [C. K. Gary](http://link.springer.com/search?facet-author=%22C.+K.+Gary%22), [J. T. Cremer](http://link.springer.com/search?facet-author=%22J.+T.+Cremer%22), [J. H. Vainionpaa](http://link.springer.com/search?facet-author=%22J.+H.+Vainionpaa%22), [M. A. Piestrup](http://link.springer.com/search?facet-author=%22M.+A.+Piestrup%22)

[*Journal of Radioanalytical and Nuclear Chemistry*](http://link.springer.com/journal/10967) *January 2014, Volume 299,* [*Issue 1*](http://link.springer.com/journal/10967/299/1/page/1)*, pp 41-51*

[**Kerntechnik**](http://www.hanser-elibrary.com/loi/kt)**(1)**

[Upgrading of neutron radiography/tomography facility at research reactor](http://www.hanser-elibrary.com/doi/abs/10.3139/124.110406)

W. Abd El Bar, T. Mongy and N. Kardjilov

*Kerntechnik, Volume: 79; Journal Issue: 1*

[**Materials Characterisation**](http://www.journals.elsevier.com/materials-characterization/)**(1)**

[Neutron radiography and X-ray computed tomography for quantifying weathering and water uptake processes inside porous limestone used as building material](http://www.sciencedirect.com/science/article/pii/S1044580313003781)

[J. Dewanckele](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[a](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0005), [T. De Kock](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[a](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0005), [G. Fronteau](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[b](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0010), [H. Derluyn](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[c](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0015), [P. Vontobel](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[d](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0020), [M. Dierick](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[e](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0025), [L. Van Hoorebeke](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[e](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0025), [P. Jacobs](http://www.sciencedirect.com/science/article/pii/S1044580313003781)[a](http://www.sciencedirect.com/science/article/pii/S1044580313003781#af0005), [V. Cnudde](http://www.sciencedirect.com/science/article/pii/S1044580313003781)

*Materials Characterization, V. 88, p 86-99, 2014*

[**Materials Science and Engineering**](http://www.sciencedirect.com/science/journal/09215093)**(1)**

[On low temperature bainite transformation characteristics using in-situ neutron diffraction and atom probe tomography](http://www.sciencedirect.com/science/article/pii/S0921509313010319)

[Khushboo Rakha](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Hossein Beladi](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Ilana Timokhina](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Xiangyuan Xiong](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Saurabh Kabra](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Klaus-Dieter Liss](http://www.sciencedirect.com/science/article/pii/S0921509313010319), [Peter Hodgson](http://www.sciencedirect.com/science/article/pii/S0921509313010319)

*Materials Science and Engineering: A, Vol. 589, 1 January 2014, Pages 303–309*

[**Materials Testing**](http://www.hanser-elibrary.com/loi/mp)  **(1)**

[Investigation of wood materials by combined application of X-ray and neutron imaging techniques](http://www.hanser-elibrary.com/doi/abs/10.3139/120.110553)

Roberto Triolo, Graziella Gambona, Fabrizio Lo Celso, Irene Ruffo, Nikolay Kardjilov, André Hilger, Andreas Paulke and Ingo Manke

*Materials Testing: Vol. 56, No. 3, pp. 224-229*

[**Nature Scientific Reports**](http://www.nature.com/srep/index.html) **(1)**

[General solution for quantitative dark-field contrast imaging with grating interferometers](http://www.nature.com/srep/2014/141128/srep07243/full/srep07243.html)

M. Strobl

*Nature Scientific Reports, Volume 4, id. 7243 (2014)*

[**Nuclear Engineering & Design**](http://www.sciencedirect.com/science/journal/00295493/273/supp/C)**(1)**

[Development of a fast neutron imaging system for investigating two-phase flows in nuclear thermal–hydraulic phenomena: A status report](http://www.sciencedirect.com/science/article/pii/S0029549314001526)

[Robert Zboray](http://www.sciencedirect.com/science/article/pii/S0029549314001526), [Robert Adams](http://www.sciencedirect.com/science/article/pii/S0029549314001526), [Marco Cortesi](http://www.sciencedirect.com/science/article/pii/S0029549314001526),[Horst-Michael Prasser](http://www.sciencedirect.com/science/article/pii/S0029549314001526)

*Nuc. Eng.& Des. V. 273, 1 July 2014, Pages 10–23*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002)**(16)**

[Energy-selective neutron imaging with high spatial resolution and its impact on the study of crystalline-structured materials](http://www.sciencedirect.com/science/article/pii/S0168900213011984)

[E.H. Lehmann](http://www.sciencedirect.com/science/article/pii/S0168900213011984), [S. Peetermans](http://www.sciencedirect.com/science/article/pii/S0168900213011984), [L. Josic](http://www.sciencedirect.com/science/article/pii/S0168900213011984), [H. Leber](http://www.sciencedirect.com/science/article/pii/S0168900213011984), [H. van Swygenhoven](http://www.sciencedirect.com/science/article/pii/S0168900213011984)

[*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*](http://www.sciencedirect.com/science/journal/01689002)*,* [*Volume 735*](http://www.sciencedirect.com/science/journal/01689002/735/supp/C)*, 21 January 2014, Pages 102–109*

[A new method by steering kernel-based Richardson–Lucy algorithm for neutron imaging restoration](http://www.sciencedirect.com/science/article/pii/S0168900213013156)

Shuang Qiao, Qiao Wang, Jia-ning Sun, Ji-peng Huang
*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 735*, *21 January 2014*, *Pages 541-545*

[A scintillator-based detector with sub-100-μm spatial resolution comprising a fibre-optic taper with wavelength-shifting fibre readout for time-of-flight neutron imaging](http://www.sciencedirect.com/science/article/pii/S0168900213015738#cor1)

[T. Nakamura](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [K. Toh](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [T. Kawasaki](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [K. Honda](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [H. Suzuki](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [M. Ebine](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [A. Birumachi](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [K. Sakasai](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [K. Soyama](http://www.sciencedirect.com/science/article/pii/S0168900213015738), [M. Katagiri](http://www.sciencedirect.com/science/article/pii/S0168900213015738)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume* [*737*](http://www.sciencedirect.com/science/journal/01689002/737/supp/C)*, 11 February 2014, Pages 176–183*

[Neutron resonance transmission spectroscopy with high spatial and energy resolution at the J-PARC pulsed neutron source](http://www.sciencedirect.com/science/article/pii/S0168900214001090)

[A.S. Tremsin](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [T. Shinohara](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [T. Kai](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [M. Ooi](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [T. Kamiyama](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [Y. Kiyanagi](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [Y. Shiota](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [J.B.McPhate](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [J.V. Vallerga](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [O.H.W. Siegmund](http://www.sciencedirect.com/science/article/pii/S0168900214001090), [W.B. Feller](http://www.sciencedirect.com/science/article/pii/S0168900214001090)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 7*[*46*](http://www.sciencedirect.com/science/journal/01689002/737/supp/C)*, 11 May 2014, Pages 47–58*

[Bright flash neutron radiography capability of the research reactor at the McClellan Nuclear Research Center](http://www.sciencedirect.com/science/article/pii/S0168900214001983)

[A.S. Tremsin](http://www.sciencedirect.com/science/article/pii/S0168900214001983), [M. Lerche](http://www.sciencedirect.com/science/article/pii/S0168900214001983), [B. Schillinger](http://www.sciencedirect.com/science/article/pii/S0168900214001983), [W.B. Feller](http://www.sciencedirect.com/science/article/pii/S0168900214001983)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 7*[*4*](http://www.sciencedirect.com/science/journal/01689002/737/supp/C)*8, 1 June 2014, Pages 46–53*

[Performance analysis of a neutron and X-ray combined computed tomography system](http://www.sciencedirect.com/science/article/pii/S0168900214002733)

[Vaibhav Sinha](http://www.sciencedirect.com/science/article/pii/S0168900214002733), [Anjali Srivastava](http://www.sciencedirect.com/science/article/pii/S0168900214002733), [Hyoung Koo Lee](http://www.sciencedirect.com/science/article/pii/S0168900214002733), [Xin Liu](http://www.sciencedirect.com/science/article/pii/S0168900214002733)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 750, 21 June 2014, Pages 12-18*

[A novel method for NDT applications using NXCT system at the Missouri University of Science & Technology](http://www.sciencedirect.com/science/article/pii/S016890021400271X)

[Vaibhav Sinha](http://www.sciencedirect.com/science/article/pii/S016890021400271X), [Anjali Srivastava](http://www.sciencedirect.com/science/article/pii/S016890021400271X), [Hyoung Koo Lee](http://www.sciencedirect.com/science/article/pii/S016890021400271X)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 750, 21 June 2014, Pages 43–55*

[Neutron imaging options at the BOA beamline at Paul Scherrer Institut](http://www.sciencedirect.com/science/article/pii/S016890021400360X)

[M. Morgano](http://www.sciencedirect.com/science/article/pii/S016890021400360X), [S. Peetermans](http://www.sciencedirect.com/science/article/pii/S016890021400360X), [E.H. Lehmann](http://www.sciencedirect.com/science/article/pii/S016890021400360X), [T. Panzner](http://www.sciencedirect.com/science/article/pii/S016890021400360X), [U. Filges](http://www.sciencedirect.com/science/article/pii/S016890021400360X)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 754, 1 August 2014, Pages 46–56*

[Design and initial 1D radiography tests of the FANTOM mobile fast-neutron radiography and tomography system](http://www.sciencedirect.com/science/article/pii/S0168900214004574)

[P. Andersson](http://www.sciencedirect.com/science/article/pii/S0168900214004574), [J. Valldor-Blücher](http://www.sciencedirect.com/science/article/pii/S0168900214004574), [E. Andersson Sundén](http://www.sciencedirect.com/science/article/pii/S0168900214004574), [H. Sjöstrand](http://www.sciencedirect.com/science/article/pii/S0168900214004574), [S. Jacobsson-Svärd](http://www.sciencedirect.com/science/article/pii/S0168900214004574)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 756, 21 August 2014, Pages 82-93*

[A new transmission based monochromator for energy-selective neutron imaging at the ICON beamline](http://www.sciencedirect.com/science/article/pii/S016890021400429X)

[S. Peetermans](http://www.sciencedirect.com/science/article/pii/S016890021400429X), [M. Tamaki](http://www.sciencedirect.com/science/article/pii/S016890021400429X), [S. Hartmann](http://www.sciencedirect.com/science/article/pii/S016890021400429X), [A. Kaestner](http://www.sciencedirect.com/science/article/pii/S016890021400429X), [M. Morgano](http://www.sciencedirect.com/science/article/pii/S016890021400429X), [E.H. Lehmann](http://www.sciencedirect.com/science/article/pii/S016890021400429X)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 757, 1 September 2014, Pages 28-32*

[Dual-particle imaging system based on simultaneous detection of photon and neutron collision events](http://www.sciencedirect.com/science/article/pii/S0168900214005889)

A. Poitrasson-Rivière, M.C. Hamel, J.K. Polack, M. Flaska, S.D. Clarke, S.A. Pozzi

*Nuclear Inst. and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 760, p. 40-45*

[Design optimization, manufacture and response measurements for fast-neutron radiography converters made of scintillator and wavelength-shifting fibers](http://www.sciencedirect.com/science/article/pii/S0168900214006196)

[Hang Li](http://www.sciencedirect.com/science/article/pii/S0168900214006196), [Yang Wu](http://www.sciencedirect.com/science/article/pii/S0168900214006196), [Chao Cao](http://www.sciencedirect.com/science/article/pii/S0168900214006196), [Heyong Huo](http://www.sciencedirect.com/science/article/pii/S0168900214006196), [Bin Tang](http://www.sciencedirect.com/science/article/pii/S0168900214006196)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 762, 21 October 2014, Pages 64-69*

[Thermal neutron imaging with CsBr storage phosphors](http://www.sciencedirect.com/science/article/pii/S0168900214008274)

[N.M. Winch](http://www.sciencedirect.com/science/article/pii/S0168900214008274), [A. Edgar](http://www.sciencedirect.com/science/article/pii/S0168900214008274), [C.M. Bartle](http://www.sciencedirect.com/science/article/pii/S0168900214008274)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 763, 1 November 2014, Pages 394-398*

[Timing and position response of a block detector for fast neutron time-of-flight imaging](http://www.sciencedirect.com/science/article/pii/S0168900214007943)

[M.A. Laubach](http://www.sciencedirect.com/science/article/pii/S0168900214007943), [J.P. Hayward](http://www.sciencedirect.com/science/article/pii/S0168900214007943), [X. Zhang](http://www.sciencedirect.com/science/article/pii/S0168900214007943), [J.W. Cates](http://www.sciencedirect.com/science/article/pii/S0168900214007943)

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 763, 1 November 2014, Pages 495-501*

[Improved track-etch neutron radiography using CR-39](http://www.sciencedirect.com/science/article/pii/S016890021400919X)

M.A. Stanojev Pereira, J.G. Marques, R. Pugliesi, J.P. Santos

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 764, 11 November 2014, Pages 310-316*

[Refractive and diffractive neutron optics with reduced chromatic aberration](http://www.sciencedirect.com/science/article/pii/S0168900214010420)

S.O. Poulsen, H.F. Poulsen, P.M. Bentley

*Nuclear Inst. and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 767, p. 415-420*

[**Nuclear Instruments and Methods in Physics Research Section B**](http://www.sciencedirect.com/science/journal/0168583X)**(5)**

[Neutron transmission measurements on hydrogen filled microspheres](http://www.sciencedirect.com/science/article/pii/S0168583X13009816)
Eva Dyrnjaja, Stefan Hummel, Marcus Keding, Marie-Theres Smolle, Joachim Gerger, Michael Zawisky

*Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, *Volume 318, Part B*, *1 January 2014*, *Pages 241-244*

[Comparison between neutron tomography and X-ray tomography: A study on polymer foams](http://www.sciencedirect.com/science/article/pii/S0168583X14000238)

[E. Solórzano](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [S. Pardo-Alonso](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [N. Kardijlov](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [I. Manke](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [F. Wieder](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [F. García-Moreno](http://www.sciencedirect.com/science/article/pii/S0168583X14000238), [M.A. Rodriguez-Perez](http://www.sciencedirect.com/science/article/pii/S0168583X14000238)

*Nuclear Instruments and Methods in Physics Research B, Volume 324, p. 29-34*

[Real-time observation of hydrogen absorption by LaNi5 with quasi-dynamic neutron tomography](http://www.sciencedirect.com/science/article/pii/S0168583X1400041X)

[Wood, Bradley M.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Wood,+B&fullauthor=Wood,%20Bradley%20M.&charset=UTF-8&db_key=PHY); [Ham, Kyungmin](http://adsabs.harvard.edu/cgi-bin/author_form?author=Ham,+K&fullauthor=Ham,%20Kyungmin&charset=UTF-8&db_key=PHY); [Hussey, Daniel S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Hussey,+D&fullauthor=Hussey,%20Daniel%20S.&charset=UTF-8&db_key=PHY); [Jacobson, David L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Jacobson,+D&fullauthor=Jacobson,%20David%20L.&charset=UTF-8&db_key=PHY); [Faridani, Adel](http://adsabs.harvard.edu/cgi-bin/author_form?author=Faridani,+A&fullauthor=Faridani,%20Adel&charset=UTF-8&db_key=PHY); [Kaestner, Anders](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kaestner,+A&fullauthor=Kaestner,%20Anders&charset=UTF-8&db_key=PHY); [Vajo, John J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vajo,+J&fullauthor=Vajo,%20John%20J.&charset=UTF-8&db_key=PHY); [Liu, Ping](http://adsabs.harvard.edu/cgi-bin/author_form?author=Liu,+P&fullauthor=Liu,%20Ping&charset=UTF-8&db_key=PHY); [Dobbins, Tabbetha A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Dobbins,+T&fullauthor=Dobbins,%20Tabbetha%20A.&charset=UTF-8&db_key=PHY); [Butler, Leslie G.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Butler,+L&fullauthor=Butler,%20Leslie%20G.&charset=UTF-8&db_key=PHY)

*Nuclear Instruments and Methods in Physics Research B, Volume 324, p. 95-101*

[Neutrons and music: Imaging investigation of ancient wind musical instruments](http://www.sciencedirect.com/science/article/pii/S0168583X1400620X)

[G. Festa](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [G. Tardino](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [L. Pontecorvo](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [D.C. Mannes](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [R. Senesi](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [G. Gorini](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y), [C. Andreani](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X1400620X?np=y)

[*Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/journal/0168583X)*,* [*Volume 336*](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/journal/0168583X/336/supp/C)*, 1 October 2014, Pages 63–69*

*DOI: 10.1016/j.nimb.2014.06.020*

[Neutron and high-contrast X-ray micro-radiography as complementary tools for monitoring organosilicon consolidants in natural building stones](http://www.sciencedirect.com/science/article/pii/S0168583X14006922)

[Monika Slavíková](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y), [František Krejčí](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y), [Petr Kotlík](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y), [Jan Jakůbek](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y), [Ivo Tomandl](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y), [Jiří Vacík](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/article/pii/S0168583X14006922?np=y)

[*Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/journal/0168583X)*,* [*Volume 338*](http://www.sciencedirect.com.ezproxyd.bham.ac.uk/science/journal/0168583X/338/supp/C)*, 1 November 2014, Pages 42–47,*

*DOI: 10.1016/j.nimb.2014.07.041*

[**Physical Review Letters**](http://journals.aps.org/prl/) **(2)**

[Dual Spectrum Neutron Radiography: Identification of Phase Transitions between Frozen and Liquid Water](http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.248301)

J. Biesdorf, P. Oberholzer, F. Bernauer, A. Kaestner, P. Vontobel, E. H. Lehmann, T. J. Schmidt, and P. Boillat

*Phys. Rev. Lett.**112, 248301 – Published 18 June 2014*

[Ultrashort Pulsed Neutron Source](http://journals.aps.org/prl/abstract/10.1103/PhysRevLett.113.184801)

I. Pomerantz, E. McCary, A. R. Meadows, A. Arefiev, A. C. Bernstein, C. Chester, J. Cortez, M. E. Donovan, G. Dyer, E. W. Gaul, D. Hamilton, D. Kuk, A. C. Lestrade, C. Wang, T. Ditmire, B. M. Hegelich

*Phys. Rev. Lett.**113, Issue 18, id184801 – Published 27 October 2014*

[**Physics Procedia**](http://www.journals.elsevier.com/physics-procedia/) **(15)**

[Ramsey Experiments Using Neutron Beams](http://www.sciencedirect.com/science/article/pii/S1875389213007025)

Florian M. Piegsa

*Physics Procedia, Volume 51, 2014, Pages 59-62*

[Quantitative Evaluation of Imaging Characteristics of the Neutron Image Intensifiers](http://www.sciencedirect.com/science/article/pii/S1875389214005951)

H. Ishikawa, T. Kamiyama, K. Nittoh, M. Yahagi, Y. Kiyanagi

Physics Procedia, Volume 60, 2014, Pages 356-362

[Design of Moderator of a Compact Accelerator-driven Neutron Source for Coded Source Imaging](http://www.sciencedirect.com/science/article/pii/S1875389214005689)

Weiwei Wen, Sheng Wang, Yubin Zou, Hang Li, Shuquan Liu, Guoyou Tang, Yuanrong Lu, Zhiyu Guo

*Physics Procedia, Volume 60, 2014, Pages 144-150*

[Three-dimensional (3D) Fast Neutron Tomography at the Low Energy Neutron Source (LENS)](http://www.sciencedirect.com/science/article/pii/S1875389214005653)

S. Lee, T. Rinckel, J. Doskow, P.E. Sokol

*Physics Procedia, Volume 60, 2014, Pages 118-124*

[Properties and Possible Applications of Kyoto University Accelerator Based Neutron Source (KUANS)](http://www.sciencedirect.com/science/article/pii/S1875389214005732)

S. Tasaki, T. Nagae, M. Hirose, Y. Yamashita, K. Hironaka, Y. Abe, Y. Yamagata, Y. Otake, K. Hirota

*Physics Procedia, Volume 60, 2014, Pages 181-185*

[Technology and Applications of Neutron Generators Developed by Adelphi Technology, Inc](http://www.sciencedirect.com/science/article/pii/S1875389214005768)

J.H. Vainionpaa, C.K. Gary, J.L. Harris, M.A. Piestrup, R.H. Pantell, G. Jones

*Physics Procedia, Volume 60, 2014, Pages 203-211*

[Preliminary Experiments of Coded Source Neutron Imaging on Accelerator-driven Neutron Source](http://www.sciencedirect.com/science/article/pii/S1875389214005938)

Sheng Wang, Yubin Zou, Hu Wang, Yuanrong Lu, Zhiyu Guo

*Physics Procedia, Volume 60, 2014, Pages 341-348*

[Neutron Yields of Thick Be Target Bombarded with Low Energy Deuterons](http://www.sciencedirect.com/science/article/pii/S1875389214005781)

Yubin Zuo, Guoyou Tang, Zhiyu Guo, Jimei Guo, Yuyang Pei, Jianguo Xu, Hu Wang, Yuanong Lu

*Physics Procedia, Volume 60, 2014, Pages 220-227*

[Trouble Shooting of Deuteron RFQ for PKUNIFTY](http://www.sciencedirect.com/science/article/pii/S187538921400577X)

Y.R. Lu, Z.Y. Guo, J. Zhao, K. Zhu, H.J. Zeng, Q.F. Zhou, G. Liu, S.X. Peng, P.K. Liu, S.Q. Liu, F.J. Jia, T.J. Yu, X.Q. Yan, L. Xiao, Y.F. Chen, M. Qian, J. Chen

*Physics Procedia, Volume 60, 2014, Pages 212-219*

[Design of Compact Polarized Neutron Imaging System for Accelerator Based Small Neutron Sources](http://www.sciencedirect.com/science/article/pii/S1875389214005896)

S. Tasaki, K. Hironaka, Y. Yamashita

*Physics Procedia, Volume 60, 2014, Pages 320-323*

[A Simulation Study of Fast Neutron Imaging for Large-scale Concrete Structures](http://www.sciencedirect.com/science/article/pii/S1875389214005902)

Y. Seki, T. Hashiguchi, H. Ota, S. Wang, A. Taketani, Y. Otake

*Physics Procedia, Volume 60, 2014, Pages 324-326*

[Delivery of 3-MeV Proton and Neutron Beams at CPHS: A Status Report on Accelerator and Neutron Activities at Tsinghua University](http://www.sciencedirect.com/science/article/pii/S1875389214005744)

X. Wang, Q. Xing, C-K. Loong, X. Guan, T. Du

*Physics Procedia, Volume 60, 2014, Pages 186-192*

[Performance of the Bragg-edge Transmission Imaging at a Compact Accelerator-driven Pulsed Neutron Source](http://www.sciencedirect.com/science/article/pii/S1875389214005823)

Hirotaka Sato, Yoshinori Shiota, Takashi Kamiyama, Masato Ohnuma, Michihiro Furusaka, Yoshiaki Kiyanagi

*Physics Procedia, Volume 60, 2014, Pages 254-263*

[LENS: 2013 Facility Overview](http://www.sciencedirect.com/science/article/pii/S1875389214005720)

David V. Baxter, S. Aldaihan, S.R. Parnell, R. Pynn, P.E. Sokol, W.M. Snow, T. Rinckel

*Physics Procedia, Volume 60, 2014, Pages 175-180*

[Recent Progress of the Compact Pulsed Hadron Source Project and Related Activities at Tsinghua University](http://www.sciencedirect.com/science/article/pii/S1875389214005628)

Xuewu Wang, Chun-K. Loong, Xialing Guan, Taibin Du

*Physics Procedia, Volume 60, 2014, Pages 97-100*

[**Planta**](http://link.springer.com/journal/425) **(1)**

[Quantitative neutron imaging of water distribution, venation network and sap flow in leaves](http://link.springer.com/article/10.1007/s00425-014-2093-3)

[Defraeye T](http://www.ncbi.nlm.nih.gov/pubmed/?term=Defraeye%20T%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Derome D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Derome%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Aregawi W](http://www.ncbi.nlm.nih.gov/pubmed/?term=Aregawi%20W%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Cantré D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Cantr%C3%A9%20D%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Hartmann S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hartmann%20S%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Lehmann E](http://www.ncbi.nlm.nih.gov/pubmed/?term=Lehmann%20E%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Carmeliet J](http://www.ncbi.nlm.nih.gov/pubmed/?term=Carmeliet%20J%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Voisard F](http://www.ncbi.nlm.nih.gov/pubmed/?term=Voisard%20F%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Verboven P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Verboven%20P%5BAuthor%5D&cauthor=true&cauthor_uid=24923675), [Nicolai B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Nicolai%20B%5BAuthor%5D&cauthor=true&cauthor_uid=24923675)

[*Planta.*](http://www.ncbi.nlm.nih.gov/pubmed/24923675)*2014 Aug; 240(2):423-36. doi: 10.1007/s00425-014-2093-3. Epub 2014 Jun 13*.

**Plant Physiology (2)**

[Visualization of root water uptake: quantification of deuterated water transport in roots using neutron radiography and numerical modeling](http://www.ncbi.nlm.nih.gov/pubmed/25189533)

[Zarebanadkouki M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zarebanadkouki%20M%5BAuthor%5D&cauthor=true&cauthor_uid=25189533), [Kroener E](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kroener%20E%5BAuthor%5D&cauthor=true&cauthor_uid=25189533), [Kaestner A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Kaestner%20A%5BAuthor%5D&cauthor=true&cauthor_uid=25189533), [Carminati A](http://www.ncbi.nlm.nih.gov/pubmed/?term=Carminati%20A%5BAuthor%5D&cauthor=true&cauthor_uid=25189533)

[*Plant Physiol.*](http://www.ncbi.nlm.nih.gov/pubmed/25189533)*2014 Oct;166(2):487-99. doi: 10.1104/pp.114.243212. Epub 2014 Sep 2*

[Recovering root system traits using image analysis exemplified by two-dimensional neutron radiography of Lupine](http://www.plantphysiology.org/lens/plantphysiol/164/1/24)

Daniel Leitner, Bernd Felderer, Peter Vontobel, Andrea Schnepf

*Plant Physiol. 2014 164: 24-35. First Published on November 11, 2013;doi:10.1104/pp.113.227892*

[**Proceedings of the SPIE**](http://proceedings.spiedigitallibrary.org/volume.aspx?conferenceid=3364&volumeid=16636) **(3)**

[Investigation of a Lithium Indium Diselenide detector for neutron transmission imaging](http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1903710)

[Lukosi, Eric](http://adsabs.harvard.edu/cgi-bin/author_form?author=Lukosi,+E&fullauthor=Lukosi,%20Eric&charset=UTF-8&db_key=PHY); [Herrera, Elan](http://adsabs.harvard.edu/cgi-bin/author_form?author=Herrera,+E&fullauthor=Herrera,%20Elan&charset=UTF-8&db_key=PHY); [Stowe, Ashley C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Stowe,+A&fullauthor=Stowe,%20Ashley%20C.&charset=UTF-8&db_key=PHY); [Milburn, Robert](http://adsabs.harvard.edu/cgi-bin/author_form?author=Milburn,+R&fullauthor=Milburn,%20Robert&charset=UTF-8&db_key=PHY); [Richardson, Dylan](http://adsabs.harvard.edu/cgi-bin/author_form?author=Richardson,+D&fullauthor=Richardson,%20Dylan&charset=UTF-8&db_key=PHY); [Wiggins, Brenden](http://adsabs.harvard.edu/cgi-bin/author_form?author=Wiggins,+B&fullauthor=Wiggins,%20Brenden&charset=UTF-8&db_key=PHY); [Burger, Arnold](http://adsabs.harvard.edu/cgi-bin/author_form?author=Burger,+A&fullauthor=Burger,%20Arnold&charset=UTF-8&db_key=PHY); [Chvala, Ondrej](http://adsabs.harvard.edu/cgi-bin/author_form?author=Chvala,+O&fullauthor=Chvala,%20Ondrej&charset=UTF-8&db_key=PHY); [Santodonato, Louis](http://adsabs.harvard.edu/cgi-bin/author_form?author=Santodonato,+L&fullauthor=Santodonato,%20Louis&charset=UTF-8&db_key=PHY); [Bilheux, Hassina](http://adsabs.harvard.edu/cgi-bin/author_form?author=Bilheux,+H&fullauthor=Bilheux,%20Hassina&charset=UTF-8&db_key=PHY)

*Proceedings of the SPIE, Volume 9213, id. 92130D 8 pp. (2014)*

[A new pad-based neutron detector for stereo coded aperture thermal neutron imaging](http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1903113)

[Dioszegi, I.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Dioszegi,+I&fullauthor=Dioszegi,%20I.&charset=UTF-8&db_key=PHY); [Yu, B.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Yu,+B&fullauthor=Yu,%20B.&charset=UTF-8&db_key=PHY); [Smith, G.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Smith,+G&fullauthor=Smith,%20G.&charset=UTF-8&db_key=PHY); [Schaknowski, N.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Schaknowski,+N&fullauthor=Schaknowski,%20N.&charset=UTF-8&db_key=PHY); [Fried, J.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Fried,+J&fullauthor=Fried,%20J.&charset=UTF-8&db_key=PHY); [Vanier, P. E.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Vanier,+P&fullauthor=Vanier,%20P.%20E.&charset=UTF-8&db_key=PHY); [Salwen, C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Salwen,+C&fullauthor=Salwen,%20C.&charset=UTF-8&db_key=PHY); [Forman, L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Forman,+L&fullauthor=Forman,%20L.&charset=UTF-8&db_key=PHY)

*Proceedings of the SPIE, Volume 9215, id. 921502 10 pp. (2014)*

[Recent results with a combined gamma-ray and neutron imaging detector](http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1903114)

[L. Soundara-Pandian](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=L.+Soundara-Pandian) [; C. M. Whitney](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=C.+M.+Whitney) [; E. B. Johnson](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=E.+B.+Johnson) [; R. Vinci](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=R.+Vinci) [; J. Glodo](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=J.+Glodo) [; J. F. Christian](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=J.+F.+Christian) [; J. Gervais](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=J.+Gervais) [; Sam Vogel](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=Sam+Vogel) [; E. Nagarkar](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=E.+Nagarkar) [; F. Robertson](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=F.+Robertson) [; M. S. Squillante](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=M.+S.+Squillante) [; P. Waer](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=P.+Waer) [; M. R. Squillante](http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.2066674&Name=M.+R.+Squillante)

*Proceedings of the SPIE, Volume 9215, id. 921503 8 pp. (2014)*

[**Progress in Nuclear Energy**](http://www.journals.elsevier.com/progress-in-nuclear-energy/) **(1)**

[Neutron radiography and tomography applied to fuel degradation during ramp tests and loss of coolant accident tests in a research reactor](http://www.sciencedirect.com/science/article/pii/S0149197013002151)

[Håkon Kristian Jenssen](http://www.sciencedirect.com/science/article/pii/S0149197013002151), [B.C. Oberländer](http://www.sciencedirect.com/science/article/pii/S0149197013002151), [J.D. Beenhouwer](http://www.sciencedirect.com/science/article/pii/S0149197013002151), [J. Sijbers](http://www.sciencedirect.com/science/article/pii/S0149197013002151), [M. Verwerft](http://www.sciencedirect.com/science/article/pii/S0149197013002151)

*Progress in Nuclear Energy, Vol. 72, April 2014, pp. 55-62*

[**Radiation Protection Dosimetry**](http://rpd.oxfordjournals.org/)**(1)**

[A Monte Carlo study of the effect of coded-aperture material and thickness on neutron imaging](http://rpd.oxfordjournals.org/content/161/1-4/265.abstract)

[S. C. Hayes](http://rpd.oxfordjournals.org/search?author1=S.+C.+Hayes&sortspec=date&submit=Submit) and [K. A. A. Gamage](http://rpd.oxfordjournals.org/search?author1=K.+A.+A.+Gamage&sortspec=date&submit=Submit)

[*Radiation Protection Dosimetry*](http://rpd.oxfordjournals.org/)*,* [*Volume 161, Issue 1-4*](http://rpd.oxfordjournals.org/content/161/1-4.toc)*, pp. 265-268*

[**Review of Scientific Instruments**](http://scitation.aip.org/content/aip/journal/rsi/browse;jsessionid=2bmofotqujf6d.x-aip-live-03)**(6)**

[Neutron source reconstruction from pinhole imaging at National Ignition Facility](http://scitation.aip.org/content/aip/journal/rsi/85/2/10.1063/1.4865456)

[P. Volegov](http://scitation.aip.org/content/contributor/AU1056838), [C. R. Danly](http://scitation.aip.org/content/contributor/AU0951228), [D. N. Fittinghoff](http://scitation.aip.org/content/contributor/AU0203850), [G. P. Grim](http://scitation.aip.org/content/contributor/AU0058921), [N. Guler](http://scitation.aip.org/content/contributor/AU1056839), [N. Izumi](http://scitation.aip.org/content/contributor/AU0039027),[T. Ma](http://scitation.aip.org/content/contributor/AU0060857), [F. E. Merrill](http://scitation.aip.org/content/contributor/AU0066424), [A. L. Warrick](http://scitation.aip.org/search?value1=A.+L.+Warrick&option1=author&noRedirect=true), [C. H. Wilde](http://scitation.aip.org/content/contributor/AU0877626) and [D. C. Wilson](http://scitation.aip.org/content/contributor/AU0058965)

*Review of Scientific Instruments, Volume 85, Issue 2, id023508, 2014*

[A novel fast-neutron detector concept for energy-selective imaging and imaging spectroscopy](http://scitation.aip.org/content/aip/journal/rsi/85/7/10.1063/1.4890392)

[Cortesi M](http://www.ncbi.nlm.nih.gov/pubmed/?term=Cortesi%20M%5BAuthor%5D&cauthor=true&cauthor_uid=25085132), [Dangendorf V](http://www.ncbi.nlm.nih.gov/pubmed/?term=Dangendorf%20V%5BAuthor%5D&cauthor=true&cauthor_uid=25085132), [Zboray R](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zboray%20R%5BAuthor%5D&cauthor=true&cauthor_uid=25085132), [Prasser HM](http://www.ncbi.nlm.nih.gov/pubmed/?term=Prasser%20HM%5BAuthor%5D&cauthor=true&cauthor_uid=25085132)

[*Review of Scientific Instruments*](http://www.ncbi.nlm.nih.gov/pubmed/25085132),*Volume 85, Issue 7, id073305, 2014*

[Neutron tomography of axially symmetric objects using 14 MeV neutrons from a portable neutron generator](http://scitation.aip.org/content/aip/journal/rsi/85/8/10.1063/1.4890662)

Andersson, P., Andersson-Sunden, E., Sjöstrand, H., Jacobsson-Svärd, S.

*Review of Scientific Instruments, Volume 85, Issue 8, id.085109*

[Plastic fiber scintillator response to fast neutrons](http://scitation.aip.org/content/aip/journal/rsi/85/11/10.1063/1.4891160)

[Danly, C. R.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Danly,+C&fullauthor=Danly,%20C.%20R.&charset=UTF-8&db_key=PHY), [Sjue, S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Sjue,+S&fullauthor=Sjue,%20S.&charset=UTF-8&db_key=PHY), [Wilde, C. H.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Wilde,+C&fullauthor=Wilde,%20C.%20H.&charset=UTF-8&db_key=PHY), [Merrill, F. E.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Merrill,+F&fullauthor=Merrill,%20F.%20E.&charset=UTF-8&db_key=PHY), [Haight, R. C.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Haight,+R&fullauthor=Haight,%20R.%20C.&charset=UTF-8&db_key=PHY)

*Review of Scientific Instruments, Volume 85, Issue 11, id.11E607*

[A concept to collect neutron and x-ray images on the same line of sight at NIF](http://scitation.aip.org/content/aip/journal/rsi/85/11/10.1063/1.4891101)

[Merrill, F. E.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Merrill,+F&fullauthor=Merrill,%20F.%20E.&charset=UTF-8&db_key=PHY), [Danly, C. R.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Danly,+C&fullauthor=Danly,%20C.%20R.&charset=UTF-8&db_key=PHY), [Izumi, N.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Izumi,+N&fullauthor=Izumi,%20N.&charset=UTF-8&db_key=PHY), [Jedlovec, D.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Jedlovec,+D&fullauthor=Jedlovec,%20D.&charset=UTF-8&db_key=PHY), [Fittinghoff, D. N.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Fittinghoff,+D&fullauthor=Fittinghoff,%20D.%20N.&charset=UTF-8&db_key=PHY), [Grim, G. P.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Grim,+G&fullauthor=Grim,%20G.%20P.&charset=UTF-8&db_key=PHY), [Pak, A.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Pak,+A&fullauthor=Pak,%20A.&charset=UTF-8&db_key=PHY),

[Park, H.-S.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Park,+H&fullauthor=Park,%20H.-S.&charset=UTF-8&db_key=PHY), [Volegov, P. L.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Volegov,+P&fullauthor=Volegov,%20P.%20L.&charset=UTF-8&db_key=PHY), [Wilde, C. H.](http://adsabs.harvard.edu/cgi-bin/author_form?author=Wilde,+C&fullauthor=Wilde,%20C.%20H.&charset=UTF-8&db_key=PHY)

*Review of Scientific Instruments, Volume 85, Issue 11, id.11E614*

[Self characterization of a coded aperture array for neutron source imaging](http://scitation.aip.org/content/aip/journal/rsi/85/12/10.1063/1.4902978)

[P. L. Volegov](http://scitation.aip.org/search?value1=P.+L.+Volegov&option1=author&noRedirect=true), [C. R. Danly](http://scitation.aip.org/search?value1=C.+R.+Danly&option1=author&noRedirect=true), [D. N. Fittinghoff](http://scitation.aip.org/search?value1=D.+N.+Fittinghoff&option1=author&noRedirect=true), [N. Guler](http://scitation.aip.org/search?value1=N.+Guler&option1=author&noRedirect=true), [F. E. Merrill](http://scitation.aip.org/search?value1=F.+E.+Merrill&option1=author&noRedirect=true), [C. H. Wilde](http://scitation.aip.org/search?value1=C.+H.+Wilde&option1=author&noRedirect=true)

*Review of Scientific Instruments, Volume 85, Issue 12, id.123506*

[**Water Resources Research**](http://agupubs.onlinelibrary.wiley.com/agu/journal/10.1002/%28ISSN%291944-7973/) **(1)**

[Non-equilibrium water dynamics in the rhizosphere: how mucilage affects water flow in soils](http://onlinelibrary.wiley.com/doi/10.1002/2013WR014756/abstract;jsessionid=C3B2343525132B61EB8A35ED2F9CFA1D.f03t01)

[Kroener, Eva](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kroener,+E&fullauthor=Kroener,%20Eva&charset=UTF-8&db_key=PHY); [Zarebanadkouki, Mohsen](http://adsabs.harvard.edu/cgi-bin/author_form?author=Zarebanadkouki,+M&fullauthor=Zarebanadkouki,%20Mohsen&charset=UTF-8&db_key=PHY); [Kaestner, Anders](http://adsabs.harvard.edu/cgi-bin/author_form?author=Kaestner,+A&fullauthor=Kaestner,%20Anders&charset=UTF-8&db_key=PHY); [Carminati, Andrea](http://adsabs.harvard.edu/cgi-bin/author_form?author=Carminati,+A&fullauthor=Carminati,%20Andrea&charset=UTF-8&db_key=PHY)

*Water Resources Research, Volume 50, Issue 8, pp. 6479-6495, 2014*

[**Wood Science and Technology**](http://link.springer.com/journal/226)**(1)**

[Water vapour diffusion through historically relevant glutin-based wood adhesives with sorption measurements and neutron radiography](http://link.springer.com/article/10.1007/s00226-014-0626-3)

[D. Mannes](http://link.springer.com/search?facet-author=%22D.+Mannes%22), [S. Sanabria](http://link.springer.com/search?facet-author=%22S.+Sanabria%22),, [M. Funk](http://link.springer.com/search?facet-author=%22M.+Funk%22), [R. Wimmer](http://link.springer.com/search?facet-author=%22R.+Wimmer%22),  [K. Kranitz](http://link.springer.com/search?facet-author=%22K.+Kranitz%22), [P. Niemz](http://link.springer.com/search?facet-author=%22P.+Niemz%22)

*Wood Science and Technology, 48(3):591-609, 2014*

**2013**

Total Number of Papers: 123

[**Advanced Materials & Processes**](http://amp.digitaledition.asminternational.org/title/12490) **(1)**

[Neutron characterization for additive manufacturing](http://www.asminternational.org/static/Static%20Files/IP/Magazine/AMP/V171/I03/amp17103p23.pdf?authtoken=3a748235b3d9c1288ca4d292dc81a4825b65f372)

Watkins T. R., Bilheux H. Z., An K., Payzant E. A., Dehoff R. R., Duty C. E., Peter W. H., Blue C. A., Brice C. A.,

*Advanced Materials & Processes* *171, pp. 23-27 (2013)*

[**The African Review of Physics**](http://www.aphysrev.org/index.php/aphysrev) **(1)**

[A study of the morphological change in plant pod by using neutron radiography technique](file:///C%3A%5CUsers%5CJohn%5CDownloads%5C736-1774-1-PB.pdf)

M. M. Rahman, Sudipta Saha, M. N. Islam, M. K. Alam, A. K. M. Azad Rahman and S. M. Azharul Islam

*The African Review of Physics, 8 (2013), pp. 239-242*

[**Annals of Botany**](http://aob.oxfordjournals.org/) **(1)**

[Visualization of embolism formation in the xylem of liana stems using neutron radiography](http://aob.oxfordjournals.org/content/111/4/723.abstract?sid=f2f2b046-2efc-488c-81c5-4c6e8006a3c1)

C. Tötzke, T. Miranda, W. Konrad, J. Gout, N. Kardjilov, M. Dawson, I. Manke, A. Roth-Nebelsick.

*Annals of Botany, 111 (4) (2013) pp. 723-730*

[**Annals of Nuclear Energy**](http://www.sciencedirect.com/science/journal/aip/03064549) **(1)**

[Simulation of neutron radiograph images at the Neutron Radiography Reactor](http://www.sciencedirect.com/science/article/pii/S0306454913000881)

Sarah W. Morgan, Jeffrey C. King, Chad L. Pope
*Annals of Nuclear Energy*, *Volume 57*, *July 2013*, *Pages 341-349*

[**Applied Physics Letters**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4816218) **(2)**

[Demonstration of achromatic cold-neutron microscope utilizing axisymmetric focusing mirrors](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6515914&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Liu, D.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Liu,%20D..QT.&newsearch=true) ; [Hussey, D.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Hussey,%20D..QT.&newsearch=true) ; [Gubarev, M.V.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Gubarev,%20M.V..QT.&newsearch=true) ; [Ramsey, B.D.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Ramsey,%20B.D..QT.&newsearch=true) ; [Jacobson, D.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Jacobson,%20D..QT.&newsearch=true) ; [Arif, M.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Arif,%20M..QT.&newsearch=true) ; [Moncton, D.E.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Moncton,%20D.E..QT.&newsearch=true) ; [Khaykovich, B.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Khaykovich,%20B..QT.&newsearch=true)  [*Applied Physics Letters*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4816218) *Volume: 102 ,* [*Issue: 18,*](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6514163) *Digital Object Identifier:* [*10.1063/1.4804178*](http://dx.doi.org/10.1063/1.4804178)  *Publication Year: 2013 , Page(s): 183508 - 183508-5*

[Detection of water with high sensitivity to study polymer electrolyte fuel cell membranes using cold neutrons at high spatial resolution](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6532193&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Bunn, Jeffrey R.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Bunn,%20Jeffrey%20R..QT.&newsearch=true) ; [Penumadu, Dayakar](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Penumadu,%20Dayakar.QT.&newsearch=true) ; [Woracek, Robin](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Woracek,%20Robin.QT.&newsearch=true) ; [Kardjilov, Nikolay](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Kardjilov,%20Nikolay.QT.&newsearch=true) ; [Hilger, Andre](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Hilger,%20Andre.QT.&newsearch=true) ; [Manke, Ingo](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Manke,%20Ingo.QT.&newsearch=true) ; [Williams, Scott](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Williams,%20Scott.QT.&newsearch=true)  [*Applied Physics Letters*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4816218) *Volume: 102 ,* [*Issue: 23 (2013)*](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6528754) *DOI:* [*10.1063/1.4811246*](http://dx.doi.org/10.1063/1.4811246) *, Page(s): 234102 - 234102-4*

[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/aip/09698043) **(4)**

[The neutron tomography facility of IPEN-CNEN/SP and its potential to investigate ceramic objects from the Brazilian cultural heritage](http://www.sciencedirect.com/science/article/pii/S0969804313000390)
M.A. Stanojev Pereira, R. Schoueri, C. Domienikan, F. de Toledo, M.L.G. Andrade, R. Pugliesi

*Applied Radiation and Isotopes*, *Volume 75*, *May 2013*, *Pages 6-10*

[Time resolved analysis of water drainage in porous asphalt concrete using neutron radiography](http://www.sciencedirect.com/science/article/pii/S0969804313000560)

[L.D. Poulikakos](http://www.sciencedirect.com/science/article/pii/S0969804313000560), [M. Sedighi Gilani](http://www.sciencedirect.com/science/article/pii/S0969804313000560), [D. Derome](http://www.sciencedirect.com/science/article/pii/S0969804313000560), [I. Jerjen](http://www.sciencedirect.com/science/article/pii/S0969804313000560), [P. Vontobel](http://www.sciencedirect.com/science/article/pii/S0969804313000560)

[*Applied Radiation and Isotopes*](http://www.sciencedirect.com/science/journal/09698043) [*Volume 77*](http://www.sciencedirect.com/science/journal/09698043/77/supp/C)*, July 2013, Pages 5–13*

[Characterization of non-tuberculosis mycobacteria by neutron radiography](http://www.sciencedirect.com/science/article/pii/S0969804313000596)
Jaqueline M. da Silva, Verginia Reis Crispim, Marlei Gomes da Silva, Vanessa Rodrigues Furtado, Rafael Da Silva Duarte

*Applied Radiation and Isotopes*, *Volume 77*, *July 2013*, *Pages 84-88*

[Dyadic wavelet for image coding implementation on a Xilinx MicroBlaze processor: Application to neutron radiography](http://www.sciencedirect.com/science/article/pii/S0969804313003357)
Slami Saadi, Maamar Touiza, Fayçal Kharfi, Abderrezak Guessoum

*Applied Radiation and Isotopes*, *Volume 82*, *December 2013*, *Pages 200-210*

[**Archaeological and Anthropological Sciences**](http://link.springer.com/journal/12520) **(1)**

[Non-invasive characterization through X-ray fluorescence and neutron radiography of an ancient Japanese lacquer](http://link.springer.com/article/10.1007/s12520-013-0127-6)

[Filomena Salvemini](http://link.springer.com/search?facet-author=%22Filomena+Salvemini%22), [Francesco Grazzi](http://link.springer.com/search?facet-author=%22Francesco+Grazzi%22), [Angelo Agostino](http://link.springer.com/search?facet-author=%22Angelo+Agostino%22), [Roberta Iannaccone](http://link.springer.com/search?facet-author=%22Roberta+Iannaccone%22), [Francesco Civita](http://link.springer.com/search?facet-author=%22Francesco+Civita%22), [Stefan Hartmann](http://link.springer.com/search?facet-author=%22Stefan+Hartmann%22), [Eberhard Lehmann](http://link.springer.com/search?facet-author=%22Eberhard+Lehmann%22), [Marco Zoppi](http://link.springer.com/search?facet-author=%22Marco+Zoppi%22)

[*Archaeological and Anthropological Sciences*](http://link.springer.com/journal/12520) *September 2013, Volume 5,* [*Issue 3*](http://link.springer.com/journal/12520/5/3/page/1)*, pp 197-204*

[**Archaeometry**](http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291475-4754) **(1)**

[Neutron tomographic assessment of incisions on prehistoric stone slabs: a case study from Wonderwerk Cave, South Africa](http://onlinelibrary.wiley.com/doi/10.1111/j.1475-4754.2012.00670.x/abstract)

Jacobson, L., de Beer, F., Nshimirimana, R., Horwitz, L.K. & Chazan, M.

 *Archaeometry 55, 2013 pp 1-13*

[**ATZ Worldwide**](http://link.springer.com/journal/38311) **(1)**

[Visualisation of the Oil Distribution in a Wet-Running Multi-Disc Clutch](http://link.springer.com/article/10.1007/s38311-013-0033-7)

 [Christian Grünzweig](http://link.springer.com/search?facet-author=%22Dr.+Dipl.-Phys.+Christian+Gr%C3%BCnzweig%22), [Matthias Wagner](http://link.springer.com/search?facet-author=%22Matthias+Wagner%22), [Johannes Ruf](http://link.springer.com/search?facet-author=%22Johannes+Ruf%22), [Daniel Helmer](http://link.springer.com/search?facet-author=%22Daniel+Helmer%22)

[*ATZ worldwide*](http://link.springer.com/journal/38311)*, March 2013, Volume 115,* [*Issue 3*](http://link.springer.com/journal/38311/115/3/page/1)*, pp 52-58*

[**Chinese Physics C**](http://iopscience.iop.org/1674-1137/) **(1)**

[Corrections on energy spectrum and scatterings for fast neutron radiography at NECTAR facility](http://iopscience.iop.org/1674-1137/37/11/118201?fromSearchPage=true)

Liu Shu-Quan , Bücherl Thomas, Li Hang, Zou Yu-Bin, Lu Yuan-Rong and Guo Zhi-Yu

[*Chinese Physics C*](http://iopscience.iop.org/1674-1137/)[*Volume 37*](http://iopscience.iop.org/1674-1137/37) [*Number 11*](http://iopscience.iop.org/1674-1137/37/11) *2013* Chinese Phys. C *37 118201* [*doi:10.1088/1674-1137/37/11/118201*](http://dx.doi.org/10.1088/1674-1137/37/11/118201)

[**Drying Technology**](http://www.tandfonline.com/toc/ldrt20/current#.Usa1ILSAffg) **(1)**

[Neutron Radiography Applications in Studies of Drying of Capillary-Porous Systems](http://www.tandfonline.com/doi/abs/10.1080/07373937.2013.779583#.Usa24bSAffg)

[I. M. Fijał-Kirejczyk](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Fija%C5%82%5C-Kirejczyk%2C+I+M%29), [J. J. Milczarek](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Milczarek%2C+J+J%29), [M. J. Radebe](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Radebe%2C+M+J%29), [F. C. de Beer](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28de+Beer%2C+F+C%29), [G. Nothnagel](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Nothnagel%2C+G%29) & [J. Żołądek-Nowak](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28%C5%BBo%C5%82%C4%85dek%5C-Nowak%2C+J%29)

[*Drying Technology*](http://www.tandfonline.com/toc/ldrt20/current) *Volume 31, Issue 8, June 2013, pages 872-880, Published online: 10 Jun 2013*

[**Earth-Science Reviews**](http://www.sciencedirect.com/science/journal/aip/00128252) **(1)**

[Neutron imaging of hydrogen-rich fluids in geomaterials and engineered porous media: a review](http://dx.doi.org/10.1016/j.earscirev.2013.11.012)

Perfect E., Cheng C.-L., Kang M., Bilheux H. Z., Lamanna J. M., Gragg M. J., Wright D. M.

Earth-Science Reviews, (2013*). In Press - Accepted Manuscript*

[**Electrochimica Acta**](http://www.sciencedirect.com/science/journal/00134686/87/supp/C) **(1)**

[High resolution neutron imaging for pulsed and constant load operation of passive self-breathing polymer electrolyte fuel cells](http://www.sciencedirect.com/science/article/pii/S0013468612015691)
M. Weiland, P. Boillat, P. Oberholzer, A. Kaestner, E.H. Lehmann, T.J. Schmidt, G.G. Scherer, H. Reichl

*Electrochimica Acta*, *Volume 87*, *1 January 2013*, *Pages 567-574*

[**European Physical Journal**](http://link.springer.com/journal/13360) **(1)**

[Revealing the secrets of composite helmets of ancient Japanese tradition](http://link.springer.com/article/10.1140/epjp/i2013-13087-y)

[F. Salvemini](http://link.springer.com/search?facet-author=%22F.+Salvemini%22), [F. Grazzi](http://link.springer.com/search?facet-author=%22F.+Grazzi%22), [A. Fedrigo](http://link.springer.com/search?facet-author=%22A.+Fedrigo%22), [A. Williams](http://link.springer.com/search?facet-author=%22A.+Williams%22), [F. Civita](http://link.springer.com/search?facet-author=%22F.+Civita%22), [A. Scherillo](http://link.springer.com/search?facet-author=%22A.+Scherillo%22), [P. Vontobel](http://link.springer.com/search?facet-author=%22P.+Vontobel%22), [S. Hartmann](http://link.springer.com/search?facet-author=%22S.+Hartmann%22), [E. Lehmann](http://link.springer.com/search?facet-author=%22E.+Lehmann%22), [M. Zoppi](http://link.springer.com/search?facet-author=%22M.+Zoppi%22)

[*The European Physical Journal Plus*](http://link.springer.com/journal/13360)*, August 2013, 128:87*

[**Experiments in Fluids**](http://link.springer.com/journal/348) **(1)**

[Measuring liquid film thickness in annular two-phase flows by cold neutron imaging](http://link.springer.com/article/10.1007/s00348-013-1596-1)

[R. Zboray](http://link.springer.com/search?facet-author=%22R.+Zboray%22), [H.-M. Prasser](http://link.springer.com/search?facet-author=%22H.-M.+Prasser%22)

[*Experiments in Fluids*](http://link.springer.com/journal/348) *September 2013, 54:1596*

[**Food and Bioprocess Technology**](http://link.springer.com/journal/11947) **(1)**

 [Novel Application of Neutron Radiography to Forced Convective Drying of Fruit Tissue](http://link.springer.com/article/10.1007/s11947-012-0999-y)

[Thijs Defraeye](http://link.springer.com/search?facet-author=%22Thijs+Defraeye%22), [Wondwosen Aregawi](http://link.springer.com/search?facet-author=%22Wondwosen+Aregawi%22), [Saba Saneinejad](http://link.springer.com/search?facet-author=%22Saba+Saneinejad%22), [Peter Vontobel](http://link.springer.com/search?facet-author=%22Peter+Vontobel%22), [Eberhard Lehmann](http://link.springer.com/search?facet-author=%22Eberhard+Lehmann%22), [Jan Carmeliet](http://link.springer.com/search?facet-author=%22Jan+Carmeliet%22), [Pieter Verboven](http://link.springer.com/search?facet-author=%22Pieter+Verboven%22), [Dominique Derome](http://link.springer.com/search?facet-author=%22Dominique+Derome%22), [Bart Nicolaï](http://link.springer.com/search?facet-author=%22Bart+Nicola%C3%AF%22)

[*Food and Bioprocess Technology*](http://link.springer.com/journal/11947) *December 2013, Volume 6,* [*Issue 12*](http://link.springer.com/journal/11947/6/12/page/1)*, pp 3353-336*7

[**IEEE Transactions on Nuclear Science**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23) **(3)**

[A high count rate neutron beam monitor for neutron scattering facilities](http://dx.doi.org/10.1109/TNS.2012.2225111)

Barnett A. K., Cox M. N., Crow L., Diawara Y., Funk L. L., Hayward Jason P., Menhard K., Sedov V. N.,

IEEE Transactions on Nuclear Science ***60****, 668-670 (2013*).

[Iterative reconstruction of coded source neutron radiographs](http://dx.doi.org/10.1109/TNS.2013.2255894)

Santos-Villalobos H. J., Bingham P. R., Gregor J.

 *IEEE Transactions on Nuclear Science* *60, 1624-1631 (2013)*

[Neutron Tomography of a Fuel Cell: Statistical Learning Implementation of a Penalized Likelihood Method](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6616604&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Coakley, K.J.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Coakley,%20K.J..QT.&newsearch=true) ; [Vecchia, D.F.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Vecchia,%20D.F..QT.&newsearch=true) ; [Hussey, D.S.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Hussey,%20D.S..QT.&newsearch=true) ; [Jacobson, D.L.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Jacobson,%20D.L..QT.&newsearch=true)  [*IEEE Transactions on*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23) *Nuclear Science, Volume: 60 ,* [*Issue: 5*](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6626362) *, Part: 3
Digital Object Identifier:* [*10.1109/TNS.2013.2279512*](http://dx.doi.org/10.1109/TNS.2013.2279512) *Year: 2013 , Page(s): 3945 - 3954*

[**Innovative Food Science & Emerging Technologies**](http://www.sciencedirect.com/science/journal/aip/14668564) **(1)**

[Understanding forced convective drying of apple tissue: combining neutron radiography and numerical modelling](http://www.sciencedirect.com/science/article/pii/S1466856413001677)
Wondwosen Aregawi, Thijs Defraeye, Saba Saneinejad, Peter Vontobel, Eberhard Lehmann, Jan Carmeliet, Pieter Verboven, Dominique Derome, Bart Nicolai

*Innovative Food Science & Emerging Technologies*, *In Press, Accepted Manuscript*, *Available online 6 November 2013*

**​**[**​**](http://www.sciencedirect.com/science/journal/00222313)[**International Journal of Heat and Mass Transfer**](http://www.sciencedirect.com/science/journal/00179310/67/supp/C) **(2)**

[Visualizing moisture release and migration in gypsum plaster board during and beyond dehydration by neutron radiography](http://www.sciencedirect.com/science/article/pii/S0017931013000628)
M. Sedighi-Gilani, K. Ghazi Wakili, M. Koebel, E. Hugi, S. Carl, E. Lehmann

*International Journal of Heat and Mass Transfer*, *Volume 60*, *May 2013*, *Pages 284-290*

[Dehydration of apple tissue: Intercomparison of neutron tomography with numerical modelling](http://www.sciencedirect.com/science/article/pii/S0017931013006789)
Wondwosen Aregawi, Thijs Defraeye, Saba Saneinejad, Peter Vontobel, Eberhard Lehmann, Jan Carmeliet, Dominique Derome, Pieter Verboven, Bart Nicolai

*International Journal of Heat and Mass Transfer*, *Volume 67*, *December 2013*, *Pages 173-182*

**​**[**​**](http://www.sciencedirect.com/science/journal/00222313)[**International Journal of Hydrogen Energy**](http://www.sciencedirect.com/science/journal/03603199/38/14) **(3)**

[In-plane neutron radiography for studying the influence of surface treatment and design of cathode flow fields in direct methanol fuel cells](http://www.sciencedirect.com/science/article/pii/S0360319912025876)

A. Schröder, K. Wippermann, T. Arlt, T. Sanders, T. Baumhöfer, N. Kardjilov, J. Mergel, W. Lehnert, D. Stolten, J. Banhart, I. Manke

*International Journal of Hydrogen Energy*, *Volume 38, Issue 5*, *19 February 2013*, *Pages 2443-2454*

[Two-phase flow in a proton exchange membrane electrolyzer visualized *in situ* by simultaneous neutron radiography and optical imaging](http://www.sciencedirect.com/science/article/pii/S0360319913004850)

O.F. Selamet, U. Pasaogullari, D. Spernjak, D.S. Hussey, D.L. Jacobson, M.D. Mat

*International Journal of Hydrogen Energy*, *Volume 38, Issue 14*, *10 May 2013*, *Pages 5823-5835*

[The advantage of using in-situ methods for studying hydrogen mass transport: Neutron radiography vs. carrier gas hot extraction](http://www.sciencedirect.com/science/article/pii/S0360319913021940)
Axel Griesche, Eusebio Solórzano, Katrin Beyer, Thomas Kannengiesser

*International Journal of Hydrogen Energy*, *Volume 38, Issue 34*, *13 November 2013*, *Pages 14725-14729*

[**International Journal of Modern Engineering Research**](http://www.ijmer.com/) **(1)**

[Study of the Internal Structure of Electronic Components RAM DDR-2 and Motherboard of Nokia-3120 by Using Neutron Radiography Technique](http://www.ijmer.com/papers/Vol3_Issue6/AP3634293432.pdf)

Shahajan Miah, Md. Hafijur Rahaman, Sudipta Saha, Md. Abu Taher Khan, Md. Aminul Islam, Md. Nurul Islam, Md. Khurshed Alam and M. Habibul Ahsan

International *Journal of Modern Engineering Research (IJMER), 3(6) (2013),* 3429-3432.

[**Journal of Applied Physics**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4915369) **(1)**

[Simultaneous neutron transmission and diffraction contrast tomography as a non-destructive 3D method for bulk single crystal quality investigations](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6616371&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Peetermans, S.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Peetermans,%20S..QT.&newsearch=true) ; [Lehmann, E.H.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Lehmann,%20E.H..QT.&newsearch=true)  [*Journal of Applied Physics*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4915369) *Volume: 114 ,* [*Issue: 12*](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6607039) *Digital Object Identifier:* [*10.1063/1.4823741*](http://dx.doi.org/10.1063/1.4823741) *Publication Year: 2013 , Page(s): 124905 - 124905-6*

[**Journal of Archaeological Science**](http://www.sciencedirect.com/science/journal/03054403/40/12) **(1)**

[5,000 years old Egyptian iron beads made from hammered meteoritic iron](http://www.sciencedirect.com/science/article/pii/S0305440313002057)
Thilo Rehren, Tamás Belgya, Albert Jambon, György Káli, Zsolt Kasztovszky, Zoltán Kis, Imre Kovács, Boglárka Maróti, Marcos Martinón-Torres, Gianluca Miniaci, Vincent C. Pigott, Miljana Radivojević, László Rosta, László Szentmiklósi, Zoltán Szőkefalvi-Nagy

*Journal of Archaeological Science*, *Volume 40, Issue 12*, *December 2013*, *Pages 4785-4792*

**​**[**Journal of Building Construction and Planning Research**](http://www.scirp.org/journal/jbcpr/)**(1)**

[Quality Study of Automated Machine Made Environmentally Friendly Brick (KAB) Sample Using Film Neutron Radiography Technique](http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=41024#.VO3LDfmsUls)

Khurshed Alam, Robiul Islam, Sudipta Saha, Nurul Islam, Syed Azharul Islam

*Journal of Building Construction and Planning Research. 1(4) (2013) pp. 141-152*

[**Journal of Colloid and Interface Science**](http://www.sciencedirect.com/science/journal/00219797)**(1)**

​[Drying patterns of porous media containing wettability contrasts](http://www.sciencedirect.com/science/article/pii/S0021979712011289)
N. Shokri and D. Or
*Journal of Colloid and Interface Science, Volume 391, 1 February 2013, Pages 135-141*

[**Journal of Heat Transfer**](http://heattransfer.asmedigitalcollection.asme.org/issues.aspx) **(1)**

[Neutron Tomography of Lithium (Li) Menisci inside a Molybdenum (Mo) Heat Pipe](http://heattransfer.asmedigitalcollection.asme.org/article.aspx?articleID=1719266)

E. Kirchoff, K. D. Kihm, J. Rosenfeld, S. Rawal, H. Bilheux, L. Walker, S. Voisin, D. Pratt, and A. Swanson

*Journal of Heat Transfer - Photogallery, Vol.135, No. 8, 080902, August 2013*

 ​[​](http://www.sciencedirect.com/science/journal/00222313)[**Journal of Instrumentation**](http://iopscience.iop.org/1748-0221/) **(2)**

[Modelling of an imaging beamline at the ISIS pulsed neutron source](http://iopscience.iop.org/1748-0221/8/10/P10001)

G Burca, W Kockelmann, J A James and M E Fitzpatrick

[*Journal of Instrumentation*](http://iopscience.iop.org/1748-0221/)[*Volume 8*](http://iopscience.iop.org/1748-0221/8) [*October 2013*](http://iopscience.iop.org/1748-0221/8/10)  *P10001* [*doi:10.1088/1748-0221/8/10/P10001*](http://dx.doi.org/10.1088/1748-0221/8/10/P10001)

[Development of large-area THGEM detectors for investigation of thermal-hydraulic phenomena using neutron imaging](http://iopscience.iop.org/1748-0221/8/10/C10009)

M Cortesi, R Zboray, R Adams, V Dangendorf, M Meshkian and H -M Prassera

[*Journal of Instrumentation*](http://iopscience.iop.org/1748-0221/)[*Volume 8*](http://iopscience.iop.org/1748-0221/8) [*October 2013*](http://iopscience.iop.org/1748-0221/8/10) *C10009* [*doi:10.1088/1748-0221/8/10/C10009*](http://dx.doi.org/10.1088/1748-0221/8/10/C10009)

[**Journal of the Korean Physical Society**](http://link.springer.com/journal/40042)**(1)**

[Visibility studies of grating-based neutron phase contrast and dark-field imaging by using partial coherence theory](http://link.springer.com/article/10.3938/jkps.63.2093)

[Seung Wook Lee](http://link.springer.com/search?facet-author=%22Seung+Wook+Lee%22), [Yu Zhou](http://link.springer.com/search?facet-author=%22Yu+Zhou%22), [Tie Zhou](http://link.springer.com/search?facet-author=%22Tie+Zhou%22), [Ming Jiang](http://link.springer.com/search?facet-author=%22Ming+Jiang%22), [Jongyul Kim](http://link.springer.com/search?facet-author=%22Jongyul+Kim%22), [Chi Won Ahn](http://link.springer.com/search?facet-author=%22Chi+Won+Ahn%22), [Alfred K. Louis](http://link.springer.com/search?facet-author=%22Alfred+K.+Louis%22)

[*Journal of the Korean Physical Society*](http://link.springer.com/journal/40042) *December 2013, Volume 63,* [*Issue 11*](http://link.springer.com/journal/40042/63/11/page/1)*, pp 2093-2097*

​[​**Journal of Luminescence**](http://www.sciencedirect.com/science/journal/00222313) **(1)**

​[Investigation of luminescence and scintillation properties of a ZnS–Ag/6LiF scintillator in the 7–295 K temperature range](http://www.sciencedirect.com/science/article/pii/S0022231312005546)
V.B. Mikhailik, S. Henry, M. Horn, H. Kraus, A. Lynch and M. Pipe

*Journal of Luminescence, Volume 134, February 2013, Pages 63-66*

[**Journal of Nuclear Materials**](http://www.sciencedirect.com/science/journal/00223115) **(1)**

[Non-destructive studies of fuel pellets by neutron resonance absorption radiography and thermal neutron radiography](http://www.sciencedirect.com/science/article/pii/S0022311513008283)
A.S. Tremsin, S.C. Vogel, M. Mocko, M.A.M. Bourke, V. Yuan, R.O. Nelson, D.W. Brown, W.B. Feller

*Journal of Nuclear Materials, Volume 440, Issues 1–3, September 2013, Pages 633-646*

[**Journal of Plant Nutrition and Soil Science**](http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291522-2624) **(1)**

[Reduced root water uptake after drying and rewetting](http://onlinelibrary.wiley.com/doi/10.1002/jpln.201300249/abstract)

M Zarebanadkouki, A Carminati

*Journal of Plant Nutrition and Soil Science 2013 published online: 2 DEC 2013*

*DOI: 10.1002/jpln.201300249*

[**Journal of Power Sources**](http://www.sciencedirect.com/science/journal/03787753/239/supp/C) **(1)**

[Investigations on dynamic water transport characteristics in flow field channels using neutron imaging techniques](http://www.sciencedirect.com/science/article/pii/S0378775313003200)
M. Klages, S. Enz, H. Markötter, I. Manke, N. Kardjilov, J. Scholta

*Journal of Power Sources*, *Volume 239*, *1 October 2013*, *Pages 596-603*

[**Journal of Radioanalytical and Nuclear Chemistry**](http://link.springer.com/journal/10967)  **(1)**

[Design and development of a neutron/X-ray combined computed tomography system at Missouri S&T](http://link.springer.com/article/10.1007/s10967-012-2062-x)

[Vaibhav Sinha](http://link.springer.com/search?facet-author=%22Vaibhav+Sinha%22), [Ashish V. Avachat](http://link.springer.com/search?facet-author=%22Ashish+V.+Avachat%22), [Hyoung K. Lee](http://link.springer.com/search?facet-author=%22Hyoung+K.+Lee%22)

[*Journal of Radioanalytical and Nuclear Chemistry*](http://link.springer.com/journal/10967) *May 2013, Volume 296,* [*Issue 2*](http://link.springer.com/journal/10967/296/2/page/1)*, pp 799-806*

[**Materials and Structures**](file:///C%3A%5CUsers%5CJohn%5CDocuments%5CWebsite%20news%5CMaterials%20and%20Structu) **(3)**

[Use of neutron radiography and tomography to visualize the autonomous crack sealing efficiency in cementitious materials](http://link.springer.com/article/10.1617/s11527-012-9887-1)

[Kim Van Tittelboom](http://link.springer.com/search?facet-author=%22Kim+Van+Tittelboom%22), [Didier Snoeck](http://link.springer.com/search?facet-author=%22Didier+Snoeck%22), [Peter Vontobel](http://link.springer.com/search?facet-author=%22Peter+Vontobel%22), [Folker H. Wittmann](http://link.springer.com/search?facet-author=%22Folker+H.+Wittmann%22), [Nele De Belie](http://link.springer.com/search?facet-author=%22Nele+De+Belie%22)

[*Materials and Structures*](http://link.springer.com/journal/11527) *January 2013, Volume 46,* [*Issue 1-2*](http://link.springer.com/journal/11527/46/1/page/1)*, pp 105-121*

[Liquid uptake in Scots pine sapwood and hardwood visualized and quantified by neutron radiography](http://link.springer.com/article/10.1617/s11527-013-0112-7)

[Marjan Sedighi-Gilani](http://link.springer.com/search?facet-author=%22Marjan+Sedighi-Gilani%22), [Peter Vontobel](http://link.springer.com/search?facet-author=%22Peter+Vontobel%22), [Eberhard Lehmann](http://link.springer.com/search?facet-author=%22Eberhard+Lehmann%22), [Jan Carmeliet](http://link.springer.com/search?facet-author=%22Jan+Carmeliet%22), [Dominique Derome](http://link.springer.com/search?facet-author=%22Dominique+Derome%22)

[*Materials and Structures*](http://link.springer.com/journal/11527) *June 2013*

[Erratum to: Liquid uptake in Scots pine sapwood and hardwood visualized and quantified by neutron radiography](http://link.springer.com/article/10.1617/s11527-013-0136-z)

[Marjan Sedighi-Gilani](http://link.springer.com/search?facet-author=%22Marjan+Sedighi-Gilani%22), [Peter Vontobel](http://link.springer.com/search?facet-author=%22Peter+Vontobel%22), [Eberhard Lehmann](http://link.springer.com/search?facet-author=%22Eberhard+Lehmann%22), [Jan Carmeliet](http://link.springer.com/search?facet-author=%22Jan+Carmeliet%22), [Dominique Derome](http://link.springer.com/search?facet-author=%22Dominique+Derome%22)

[*Materials and Structures*](http://link.springer.com/journal/11527) *July 2013*

[**Measurement Science and Technology**](http://iopscience.iop.org/0957-0233/)**(1)**

[Simultaneous and integrated neutron-based techniques for material analysis of a metallic ancient flute](http://iopscience.iop.org/0957-0233/24/9/095601/article?fromSearchPage=true)

G Festa, A Pietropaolo, F Grazzi, L F Sutton, A Scherillo, L Bognetti, A Bini, E Barzagli, E Schooneveld and C Andreani

Meas. Sci. Technol. *24 Number 9 (2013) 095601. doi:10.1088/0957-0233/24/9/095601*

[**Microsystem Technologies**](http://link.springer.com/journal/542)**(1)**

[Analysis of the oil injection process in fluid dynamic bearings of the spindle motor of computer hard disk drives](http://link.springer.com/article/10.1007/s00542-013-1841-9)

[Yeonha Jung](http://link.springer.com/search?facet-author=%22Yeonha+Jung%22), [Gunhee Jang](http://link.springer.com/search?facet-author=%22Gunhee+Jang%22), [Kyungmoon Jung](http://link.springer.com/search?facet-author=%22Kyungmoon+Jung%22), [Hokyung Jang](http://link.springer.com/search?facet-author=%22Hokyung+Jang%22)

[*Microsystem Technologies*](http://link.springer.com/journal/542) *September 2013, Volume 19,* [*Issue 9-10*](http://link.springer.com/journal/542/19/9/page/1)*, pp 1465-1474*

[**Neutron News**](http://www.tandfonline.com/loi/gnnw20#.Usa6MbSAffg)**(2)**

[Growth and Challenges of the HANARO Neutron Beam Facility](http://www.tandfonline.com/doi/full/10.1080/10448632.2013.777642#.UscqdbSAffg)

[Sungil Park](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Park%2C+S%29)

[*Neutron News*](http://www.tandfonline.com/toc/gnnw20/current) *Volume 24, Issue 2, April 2013, pages 18-22*

*Published online: 2 May 2013*

|  |  |
| --- | --- |
|  |  |

[Energy resolved neutron radiography at LANSCE pulsed neutron facility](http://www.tandfonline.com/doi/full/10.1080/10448632.2013.831612#.UsgxArSAffg)

[A.S. Tremsin](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Tremsin%2C+A%29), [S.C. Vogel](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Vogel%2C+S%29), [M. Mocko](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Mocko%2C+M%29), [M.A.M. Bourke](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Bourke%2C+M%29), [V. Yuan](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Yuan%2C+V%29), [R.O. Nelson](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Nelson%2C+R%29), [D.W. Brown](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Brown%2C+D%29) & [W.B. Feller](http://www.tandfonline.com/action/doSearch?action=runSearch&type=advanced&searchType=journal&result=true&prevSearch=%2Bauthorsfield%3A%28Feller%2C+W%29)

*Neutron News* [*Volume 24*](http://www.tandfonline.com/loi/gnnw20?open=24#vol_24)*,* [*Issue 4*](http://www.tandfonline.com/toc/gnnw20/24/4)*, 2013 pages 28-32* ***DOI:****10.1080/10448632.2013.831612*

[**New Phytologist**](http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291469-8137) **(1)**

[Where do roots take up water? Neutron radiography of water flow into the roots of transpiring plants growing in soil](http://onlinelibrary.wiley.com/doi/10.1111/nph.12330/abstract)

Mohsen Zarebanadkouki, Yangmin X. Kim and Andrea Carminati

*New Phytologist Volume 199, Issue 4, September 2013, Pages: 1034–1044*

[**Nuclear Engineering and Design**](http://www.sciencedirect.com/science/journal/00295493/260/supp/C) **(3)**

[Optimizing the performance of cold-neutron tomography for investigating annular flows and functional spacers in fuel rod bundles](http://www.sciencedirect.com/science/article/pii/S0029549313001684)
Robert Zboray, Horst-Michael Prasser

*Nuclear Engineering and Design*, *Volume 260*, *July 2013*, *Pages 188-203*

[Neutron imaging of annular flows in a tight lattice fuel bundle model](http://www.sciencedirect.com/science/article/pii/S0029549313003105)
Robert Zboray, Horst-Michael Prasser

*Nuclear Engineering and Design*, *Volume 262*, *September 2013*, *Pages 589-599*

[Beam characterization at the Neutron Radiography Reactor](http://www.sciencedirect.com/science/article/pii/S0029549313004226)

Sarah W. Morgan, Jeffrey C. King, Chad L. Pope

*Nuclear Engineering and Design*, *Volume 265*, *December 2013*, *Pages 639-653*

​[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002/729/supp/C)**(12)**

​[Neutron imaging detector based on the micro-pixel chamber](http://www.sciencedirect.com/science/article/pii/S0168900212009072)
J.D. Parker, K. Hattori, H. Fujioka, M. Harada, S. Iwaki, S. Kabuki, Y. Kishimoto, H. Kubo, S. Kurosawa, K. Miuchi, T. Nagae, H. Nishimura, T. Oku, T. Sawano, T. Shinohara, J. Suzuki, A. Takada, T. Tanimori and K. Ueno
*Nuclear Instruments and Methods in Physics Research Section A, Volume 697, 1 January 2013, Pages 23-31*

​[Development of a high-speed camera system for neutron imaging at a pulsed neutron source](http://www.sciencedirect.com/science/article/pii/S0168900212009825)
M. Segawa, T. Kai, T. Sakai, M. Ooi and M. Kureta
*Nuclear Instruments and Methods in Physics Research Section A, Volume 697, 1 January 2013, Pages 77-83*

​[Water calibration measurements for neutron radiography: Application to water content quantification in porous media](http://www.sciencedirect.com/science/article/pii/S0168900212016749)

​M. Kang, H.Z. Bilheux, S. Voisin, C.L. Cheng, E. Perfect, J. Horita and J.M. Warren

​*Nuclear Instruments and Methods in Physics Research Section A, Volume 708, 21 April 2013, Pages 24-31*

[Spatial resolution of a μPIC-based neutron imaging detector](http://www.sciencedirect.com/science/article/pii/S0168900213008188)

J.D. Parker, M. Harada, K. Hattori, S. Iwaki, S. Kabuki, Y. Kishimoto, H. Kubo, S. Kurosawa, Y. Matsuoka, K. Miuchi, T. Mizumoto, H. Nishimura, T. Oku, T. Sawano, T. Shinohara, J. Suzuki, A. Takada, T. Tanimori, K. Ueno

*Nuclear Instruments and Methods A* 726, 155-161(2013) 21 October 2013,

[Neutron tomography of particulate filters: a non-destructive investigation tool for applied and industrial research](http://dx.doi.org/10.1016/j.nima.2013.08.033)

Toops T. J., Bilheux H., Voisin S., Gregor J., Walker L., Strzelec A., Finney C. E.A., Pihl J. A.

*Nuclear Instruments and Methods A* 729, 581-588 (2013)

[The physics analysis and experiment study of zinc sulphide scintillator for fast neutron radiography](http://www.sciencedirect.com/science/article/pii/S0168900213010759)
Bin Tang, Yang Wu, Hang Li, Yong Sun, Heyong Huo, Bin Liu, Ke Tang, Wei Yin, Chao Chao

*Nuclear Instruments and Methods A 729*, *21 Nov 2013*, pp *327-333*

[Hybrid Monte-Carlo method for simulating neutron and photon radiography](http://www.sciencedirect.com/science/article/pii/S0168900213011662)

Han Wang and Vincent Tang
*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 729*, *21 November 2013*, *Pages 728-734*

[Characterization of boron coated vitreous carbon foam for neutron detection](http://www.sciencedirect.com/science/article/pii/S0168900213010826)
C.M. Lavelle, Ryan M. Deacon, Daniel S. Hussey, Michael Coplan, Charles W. Clark

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 729*, *21 November 2013*, *Pages 346-355*

[Energy-selective neutron imaging with high spatial resolution and its impact on the study of crystalline-structured materials](http://www.sciencedirect.com/science/article/pii/S0168900213011984)
E.H. Lehmann, S. Peetermans, L. Josic, H. Leber, H. van Swygenhoven

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 735*, *21 January 2014*, *Pages 102-109*

[Improving quantitative neutron radiography through image restoration](http://www.sciencedirect.com/science/article/pii/S0168900213009893)
D.S. Hussey, K.J. Coakley, E. Baltic, D.L. Jacobson

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 729*, *21 November 2013*, *Pages 316-321*

[Development of a high-speed camera system for neutron imaging at a pulsed neutron source](http://www.sciencedirect.com/science/article/pii/S0168900212009825)
M. Segawa, T. Kai, T. Sakai, M. Ooi, M. Kureta

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 697*, *1 January 2013*, *Pages 77-83*

[Characterization of a neutron imaging setup at the INES facility](http://www.sciencedirect.com/science/article/pii/S0168900213006852)

E.A. Durisi, L. Visca, F. Albertin, R. Brancaccio, J. Corsi, G. Dughera, W. Ferrarese, A. Giovagnoli, N. Grassi, F. Grazzi, A. Lo Giudice, G. Mila, M. Nervo, N. Pastrone, F. Prino, L. Ramello, A. Re, A. Romero, R. Sacchi, F. Salvemini

*Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, *Volume 726*, *21 October 2013*, *Pages 31-36*

[**Physical Chemistry Chemical Physics**](http://pubs.rsc.org/en/journals/journalissues/cp#!recentarticles&all) **(1)**

[Neutron imaging of ion transport in mesoporous carbon materials](http://dx.doi.org/10.1039/C3CP51310F)

Sharma K., Bilheux H., Walker L., Voisin S., Mayes R. T., Kiggans J., Yiacoumi S., DePaoli D. W., Dai S., Tsouris C.,

*Physical Chemistry Chemical Physics* *15, 11740-11747 (2013*).

[**Physics Procedia**](http://www.sciencedirect.com/science/journal/18753892/43/supp/C) **(42)**

[Imaging Quantum Mechanical Effects in Superconductors with Polarized Neutrons](http://www.sciencedirect.com/science/article/pii/S1875389213002113)
W. Treimer, O. Ebrahimi, N. Karakas

*Physics Procedia*, *Volume 42*, *2013*, *Pages 31-38*

[A Review of Significant Advances in Neutron Imaging from Conception to the Present](http://www.sciencedirect.com/science/article/pii/S1875389213000163)
J.S. Brenizer

*Physics Procedia*, *Volume 43*, *2013*, *Pages 10-20*

[Imaging of Quantum Mechanical Effects in Superconductors by Means of Polarized Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389213000424)

W. Treimer, O. Ebrahimi, N. Karakas
*Physics Procedia*, *Volume 43*, *2013*, *Pages 243-253*

[The Study of Zinc Sulphide Scintillator for Fast Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389213000382)

Wu Yang, Tang Bin, Huo Heyong, Liu Bin, Tang Ke, Sun Yong, Yin Wei, Cao Chao

*Physics Procedia*, *Volume 43*, *2013*, *Pages 205-215*

[Neutron imaging of alkali metal heat pipes](http://dx.doi.org/10.1016/j.phpro.2013.03.038)

Kihm K., Kirchoff E., Golden M., Rosenfeld J., Rawal S., Pratt D., Swanson A., Bilheux H., Walker L., Voisin S., Hussey D. S., Jacobson D. L.,

*Physics Procedia,* *Volume 43,* *Pages 323-330 (2013)*

[Visualization of Water Behavior in the In-plane and Throughplane Directions in a PEFC using a Neutron Image Intensifier](http://www.sciencedirect.com/science/article/pii/S1875389213000461)
H. Murakawa, K. Sugimoto, K. Miyata, H. Asano, N. Takenaka, Y. Saito

*Physics Procedia*, *Volume 43*, *2013*, *Pages 277-281*

[Neutron Radiography, Tomography, and Diffraction of Commercial Lithium-ion Polymer Batteries](http://www.sciencedirect.com/science/article/pii/S1875389213000539)
Leslie G. Butler, Eberhard H. Lehmann, Burkhard Schillinger

*Physics Procedia*, *Volume 43*, *2013*, *Pages 331-336*

[Development of a High-performance Optical System and Fluorescent Converters for High-resolution Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000400)
T. Sakai, R. Yasuda, H. Iikura, T. Nojima, M. Matsubayashi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 223-230*

[Evaluation Procedures for Spatial Resolution and Contrast Standards for Neutron Tomography](http://www.sciencedirect.com/science/article/pii/S187538921300031X)
M.J. Radebe, F.C. de Beer, A. Kaestner, E. Lehmann, C.M. Sim, E. Sideras-Haddad

*Physics Procedia*, *Volume 43*, *2013*, *Pages 138-148*

[Current Activities of Neutron Imaging Facilities in KUR (Kyoto University Research Reactor)](http://www.sciencedirect.com/science/article/pii/S1875389213000199)
Yuji Kawabata, Yasushi Saito

*Physics Procedia*, *Volume 43*, *2013*, *Pages 42-47*

[Verifying Neutron Tomography Performance using Test Objects](http://www.sciencedirect.com/science/article/pii/S1875389213000308)
A.P. Kaestner, E.H. Lehmann, J. Hovind, M.J. Radebe, F.C. de Beer, C.M. Sim

*Physics Procedia*, *Volume 43*, *2013*, *Pages 128-137*

[Present Status of Research on Pulsed Neutron Imaging in Japan](http://www.sciencedirect.com/science/article/pii/S1875389213000266)
Y. Kiyanagi, T. Shinohara, T. Kai, T. Kamiyama, H. Sato, K. Kino, K. Aizawa, M. Arai, M. Harada, K. Sakai, K. Oikawa, M. Ooi, F. Maekawa, H. Iikura, T. Sakai, M. Matsubayashi, M. Segawa, M. Kureta

*Physics Procedia*, *Volume 43*, *2013*, *Pages 92-99*

[A Double Detector Set-up for Simultaneous Transmission and Diffraction Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000357)
S. Peetermans, E.H. Lehmann

*Physics Procedia*, *Volume 43*, *2013*, *Pages 179-185*

[Development of an Imaging System for the Observation of Water Behavior in a Channel in PEMFC](http://www.sciencedirect.com/science/article/pii/S1875389213000473)
T. Nojima, R. Yasuda, N. Takenaka, M. Katagiri, H. Iikura, T. Sakai, M. Matsubayashi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 282-287*

[Neutron Resonance Imaging of a Au-In-Cd Alloy for the JSNS](http://www.sciencedirect.com/science/article/pii/S1875389213000540)
M. Ooi, M. Teshigawara, T. Kai, M. Harada, F. Maekawa, M. Futakawa, E. Hashimoto, M. Segawa, M. Kureta, A. Tremsin, T. Kamiyama, Y. Kiyanagi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 337-342*

[Measurement of Water Distribution in through-plane Direction in a PEFC using a Neutron Image Intensifier](http://www.sciencedirect.com/science/article/pii/S1875389213000485)
K. Sugimoto, H. Murakawa, K. Miyata, H. Asano, N. Takenaka, R. Yasuda

*Physics Procedia*, *Volume 43*, *2013*, *Pages 288-293*

[Quantitative Measurement of Element Distributions using the Neutron-transmission Resonance-absorption Method](http://www.sciencedirect.com/science/article/pii/S1875389213000515)
M. Harada, J.D. Parker, T. Sawano, H. Kubo, T. Tanimori, T. Shinohara, F. Maekawa, K. Sakai

*Physics Procedia*, *Volume 43*, *2013*, *Pages 314-322*

[A Line Pair Indicator Made of Gd Film for Evaluating Spatial Resolution](http://www.sciencedirect.com/science/article/pii/S1875389213000370)
R. Yasuda, M. Matsubayashi, T. Sakai, T. Nojima, H. Iikura, M. Katagiri, K. Takano, P. Tatiana, A. Faenov

*Physics Procedia*, *Volume 43*, *2013*, *Pages 196-204*

[Analysis of Crystallographic Structure of a Japanese Sword by the Pulsed Neutron Transmission Method](http://www.sciencedirect.com/science/article/pii/S1875389213000576)
K. Kino, N. Ayukawa, Y. Kiyanagi, T. Uchida, S. Uno, F. Grazzi, A. Scherillo

*Physics Procedia*, *Volume 43*, *2013*, *Pages 360-364*

[Investigation of the Brightness Enhancement using Brightness Enhancement Films on a Scintillator](http://www.sciencedirect.com/science/article/pii/S1875389213000333)
H. Iikura, N. Tsutsui, Y. Saito, T. Nojima, R. Yasuda, T. Sakai, M. Matsubayashi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 161-168*

[Upgrade of Bragg Edge Analysis Techniques of the RITS Code for Crystalline Structural Information Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000369)
H. Sato, T. Shinohara, R. Kiyanagi, K. Aizawa, M. Ooi, M. Harada, K. Oikawa, F. Maekawa, K. Iwase, T. Kamiyama, Y. Kiyanagi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 186-195*

[New Type of Neutron Image Scintillator based on H310BO3/ZnS(Ag)](http://www.sciencedirect.com/science/article/pii/S1875389213000394)
Yu Wang, Songbai Han, Lijie Hao, Linfeng He, Guohai Wei, Meimei Wu, Hongli Wang, Yuntao Liu, Dongfeng Chen

*Physics Procedia*, *Volume 43*, *2013*, *Pages 216-222*

[IMAT – A New Imaging and Diffraction Instrument at ISIS](http://www.sciencedirect.com/science/article/pii/S1875389213000278)
W. Kockelmann, S.Y. Zhang, J.F. Kelleher, J.B. Nightingale, G. Burca, J.A. James

*Physics Procedia*, *Volume 43*, *2013*, *Pages 100-110*

[Spectral Characterization of a Velocity Selector Type Monochromator for Energy-Selective Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000291)
S. Peetermans, F. Grazzi, F. Salvemini, E. Lehmann

*Physics Procedia*, *Volume 43*, *2013*, *Pages 121-127*

[Neutron imaging of archaeological bronzes at the Oak Ridge National Laboratory](http://dx.doi.org/10.1016/j.phpro.2013.03.041)

Ryzewski K., Herringer S., Bilheux H., Walker L., Sheldon B., Voisin S., Bilheux J.-C., Finocchiaro V.

*Physics Procedia, Volume 43*, *Pages 343-351* (2013)

[The Development of Neutron Radiography and Tomography on a SLOWPOKE-2 Reactor](http://www.sciencedirect.com/science/article/pii/S1875389213000175)
L.G.I. Bennett, W.J. Lewis, P.C. Hungler

*Physics Procedia*, *Volume 43*, *2013*, *Pages 21-33*

[Design of Real-time Neutron Radiography at China Advanced Research Reactor](http://www.sciencedirect.com/science/article/pii/S1875389213000205)
Linfeng He, Songbai Han, Hongli Wang, Lijie Hao, Meimei Wu, Guohai Wei, Yu Wang, Yuntao Liu, Kai Sun, Dongfeng Chen

*Physics Procedia*, *Volume 43*, *2013*, *Pages 48-53*

[Design of the Testing Set-up for a Nuclear Fuel Rod by Neutron Radiography at CARR](http://www.sciencedirect.com/science/article/pii/S1875389213000503)
Guohai Wei, Songbai Han, Hongli Wang, Lijie Hao, Meimei Wu, Linfeng He, Yu Wang, Yuntao Liu, Kai Sun, Dongfeng Chen

Physics Procedia, Volume 43, 2013, Pages 307-313

[Design of Cold Neutron Imaging Facility at China Advanced Research Reactor](http://www.sciencedirect.com/science/article/pii/S1875389213000230)
Songbai Han, Meimei Wu, Hongli Wang, Lijie Hao, Guohai Wei, Linfeng He, Yu Wang, Yuntao Liu, Dongfeng Chen

*Physics Procedia*, *Volume 43*, *2013*, *Pages 73-78*

[Progress of PKUNIFTY – a RFQ Accelerator based Neutron Imaging Facility at Peking University](http://www.sciencedirect.com/science/article/pii/S1875389213000242)
Zhiyu Guo, Yuanrong Lu, Yubin Zou, Kun Zhu, Shixiang Peng, Jie Zhao, Shuli Gao, Weiwei Wen, Hang Li, Quanfeng Zhou, Haitao Ren, Pengnan Lü, Hongjin Zeng, Sheng Wang, Guoyou Tang, Dawei Mo, Zhongxi Yuan, Dalin Xie, Xueqing Yan, Jiaer Chen

*Physics Procedia*, *Volume 43*, *2013*, *Pages 79-85*

[A Low-cost Neutron Radiography Device](http://www.sciencedirect.com/science/article/pii/S1875389213000217)
Danyal Turkoglu, Lei Cao, Radoslaw Lewandowski

*Physics Procedia*, *Volume 43*, *2013*, *Pages 54-65*

[Preliminary Experiments of Neutron Radiography with Several Hundred keV Fast Neutrons](http://www.sciencedirect.com/science/article/pii/S1875389213000229)
Hang Li, Yubin Zou, Sheng Wang, Weiwei Wen, Shuquan Liu, Guoyou Tang, Yuanrong Lu, Zhiyu Guo

*Physics Procedia*, *Volume 43*, *2013*, *Pages 66-72*

[Neutron Radiography and Tomography Investigations of the Secondary Hydriding of Zircaloy-4 during Simulated Loss of Coolant Nuclear Accidents](http://www.sciencedirect.com/science/article/pii/S1875389213000497)

Mirco K. Grosse, Juri Stuckert, Martin Steinbrück, Anders P. Kaestner, Stefan Hartmann

*Physics Procedia*, *Volume 43*, *2013*, *Pages 294-306*

[Scientific Design of the New Neutron Radiography Facility (SANRAD) at SAFARI-1 for South Africa](http://www.sciencedirect.com/science/article/pii/S1875389213000187)

F.C. de Beer, F. Gruenauer, J.M. Radebe, T. Modise, B. Schillinger

*Physics Procedia*, *Volume 43*, *2013*, *Pages 34-41*

[Studies on a Pulsed Thermal/Epithermal Neutron Source with a Compact Accelerator for Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000254)
Hiroyuki Hasemi, Takashi Kamiyama, Yoshiaki Kiyanagi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 86-91*

[Edge Enhancement in Cold Neutron Imaging: A Comparison of Experiments at Edges and Interfaces with Ray-tracing based on Refraction and Reflection](http://www.sciencedirect.com/science/article/pii/S1875389213000321)
Leslie G. Butler, Eberhard H. Lehmann

*Physics Procedia*, *Volume 43*, *2013*, *Pages 149-160*

[Comparison of Image Filters for Low Dose Neutron Imaging](http://www.sciencedirect.com/science/article/pii/S1875389213000345)

P.C. Hungler, L.G.I. Bennett, W.J. Lewis, G. Bevan, J. Metzler

*Physics Procedia*, *Volume 43*, *2013*, *Pages 169-178*

[Progress in Industrial Applications using Modern Neutron Imaging Techniques](http://www.sciencedirect.com/science/article/pii/S1875389213000412)

Christian Grünzweig, David Mannes, Anders Kaestner, Florian Schmid, Peter Vontobel, Jan Hovind, Stefan Hartmann, Steven Peetermans, Eberhard Lehmann

*Physics Procedia*, *Volume 43*, *2013*, *Pages 231-242*

[Visibility Estimation for Neutron Resonance Absorption Radiography using a Pulsed Neutron Source](http://www.sciencedirect.com/science/article/pii/S187538921300028X)
Tetsuya Kai, Fujio Maekawa, Hidetoshi Oshita, Hirotaka Sato, Takenao Shinohara, Motoki Ooi, Masahide Harada, Shoji Uno, Toshiya Otomo, Takashi Kamiyama, Yoshiaki Kiyanagi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 111-120*

[Study on the Properties of Supercritical Water Flowing in a Closed Loop using Dynamic Neutron Radiography](http://www.sciencedirect.com/science/article/pii/S1875389213000436)
Márton Balaskó, László Horváth, Ákos Horváth, Attila Kiss, Attila Aszódi

*Physics Procedia*, *Volume 43*, *2013*, *Pages 254-263*

[Attempts for Simultaneous Observation of Image and Elemental Component in a Pottery Sample using Neutrons](http://www.sciencedirect.com/science/article/pii/S1875389213000564)
S. Sekimoto, Y. Saito, D. Ito, Y. Homura, M. Ebihara, Y. Kawabata

*Physics Procedia*, *Volume 43*, *2013*, *Pages 352-359*

[Neutron Imaging of Alkali Metal Heat Pipes](http://www.sciencedirect.com/science/article/pii/S1875389213000527)
K. Kihm, E. Kirchoff, M. Golden, J. Rosenfeld, S. Rawal, D. Pratt, A. Swanson, H. Bilheux, L. Walker, S. Voisin, D.S. Hussey, D.L. Jacobson

*Physics Procedia*, *Volume 43*, *2013*, *Pages 323-330*

[**Physical Review B**](http://prb.aps.org/browse) **(1)**

[Quantification of the neutron dark-field imaging signal in grating interferometry](http://prb.aps.org/abstract/PRB/v88/i12/e125104)

[C. Grünzweig](http://publish.aps.org/search/field/author/C.%20Gr%C3%BCnzweig), [J. Kopecek](http://publish.aps.org/search/field/author/J.%20Kopecek), [B. Betz](http://publish.aps.org/search/field/author/B.%20Betz), [A. Kaestner](http://publish.aps.org/search/field/author/A.%20Kaestner), [K. Jefimovs](http://publish.aps.org/search/field/author/K.%20Jefimovs), [J. Kohlbrecher](http://publish.aps.org/search/field/author/J.%20Kohlbrecher), [U. Gasser](http://publish.aps.org/search/field/author/U.%20Gasser), [O. Bunk](http://publish.aps.org/search/field/author/O.%20Bunk), [C. David](http://publish.aps.org/search/field/author/C.%20David), [E. Lehmann](http://publish.aps.org/search/field/author/E.%20Lehmann), [T. Donath](http://publish.aps.org/search/field/author/T.%20Donath), and [F. Pfeiffer](http://publish.aps.org/search/field/author/F.%20Pfeiffer)

*Phys. Rev. B 88, 125104 (2013) [6 pages]*

[**Plant and Soil**](http://link.springer.com/journal/11104) **(4)**

[Visualizing water transport in roots: advanced imaging tools for an expanding field](http://link.springer.com/article/10.1007/s11104-013-1657-5)

[Craig R. Brodersen](http://link.springer.com/search?facet-author=%22Craig+R.+Brodersen%22)

*Plant and Soil 366, 29-32 (2013)*

[Neutron imaging reveals internal plant water dynamics](http://link.springer.com/article/10.1007/s11104-012-1579-7)

Warren J. M., Bilheux H., Kang M., Voisin S., Cheng C.-L., Horita J., Perfect E.,

*Plant and Soil 366, 683-693 (2013)*

[Comment on 'neutron imaging reveals internal plant water dynamics'](http://link.springer.com/article/10.1007/s11104-013-1780-3)

Carmati, A. and [Zarebanadkouki](http://link.springer.com/search?facet-author=%22M.+Zarebanadkouki%22), M.

*Plant and Soil* *369, 25-27 (2013)*

[Reply to: Comment on 'neutron imaging reveals internal plant water dynamics'](http://link.springer.com/article/10.1007/s11104-013-1858-y)

Warren J. M., Bilheux H., Cheng C.-L., Perfect E.

*Plant and Soil* *371, 15-17 (2013)*

[**Proceedings of the SPIE**](http://proceedings.spiedigitallibrary.org/conferenceproceedings.aspx) **(2)**

[Neutron imaging with coded sources: design pitfalls and the implementation of a simultaneous iterative reconstruction technique](http://dx.doi.org/10.1117/12.2008687)

Santos-Villalobos H. J., Bingham P. R., Gregor J.,

*Proceedings of the SPIE* 8657, 865708 (2013).

[Neutron imaging for geothermal energy systems](http://spie.org/x648.xml?product_id=2004617)

Bingham P., Polsky Y., Anovitz L.,

*Proceedings of the SPIE* 8661, 86610K (2013).

[**Radiation Physics and Chemistry**](http://www.sciencedirect.com/science/journal/0969806X/86/supp/C) **(1)**

[The replacement of research reactors with a compact proton linac for neutron radiography](http://www.sciencedirect.com/science/article/pii/S0969806X13000595)
J.G. Fantidis, D.V. Bandekas, N. Vordos

*Radiation Physics and Chemistry*, *Volume 86*, *May 2013*, *Pages 74-78*

[**Review of Scientific Instruments**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4915264) **(3)**

[Development of a cold-neutron imaging detector based on thick gaseous electron multiplier](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6471351&queryText%3Dcortesi)

[M. Cortesi](http://scitation.aip.org/content/contributor/AU0995168;jsessionid=6tqii1b6f2ukd.x-aip-live-03), [R. Zboray](http://scitation.aip.org/content/contributor/AU0995169;jsessionid=6tqii1b6f2ukd.x-aip-live-03), [A. Kaestner](http://scitation.aip.org/content/contributor/AU0995170;jsessionid=6tqii1b6f2ukd.x-aip-live-03) and [H.-M. Prasser](http://scitation.aip.org/content/contributor/AU0995171;jsessionid=6tqii1b6f2ukd.x-aip-live-03)

*Rev. Sci. Instrum*. *84*, 023305 (2013); <http://dx.doi.org/10.1063/1.4793225>

[Fabrication and characterization of the source grating for visibility improvement of neutron phase imaging with gratings](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6549446&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Kim, Jongyul](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Kim,%20Jongyul.QT.&newsearch=true) ; [Lee, Kye Hong](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Lee,%20Kye%20Hong.QT.&newsearch=true) ; [Lim, Chang Hwy](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Lim,%20Chang%20Hwy.QT.&newsearch=true) ; [Kim, Taejoo](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Kim,%20Taejoo.QT.&newsearch=true) ; [Ahn, Chi Won](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Ahn,%20Chi%20Won.QT.&newsearch=true) ; [Cho, Gyuseong](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Cho,%20Gyuseong.QT.&newsearch=true) ; [Lee, Seung Wook](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Lee,%20Seung%20Wook.QT.&newsearch=true)  [*Rev. of Sci. Instrum.*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4915264) *84*, [Issue: 6](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6522997)  (2013) Digital Object Identifier: [10.1063/1.4810014](http://dx.doi.org/10.1063/1.4810014) , Page(s): 063705 - 063705-5

[The autofocusing system of the IMAT neutron camera](http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6589385&refinements%3D4291944822%2C4291944246%26ranges%3D2013_2014_p_Publication_Year%26matchBoolean%3Dtrue%26searchField%3DSearch_All%26queryText%3D%28%28p_Abstract%3Aneutron+imaging%29+OR+p_Abstract%3Aneutron+radiography%29)

[Finocchiaro, V.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Finocchiaro,%20V..QT.&newsearch=true) ; [Aliotta, F.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Aliotta,%20F..QT.&newsearch=true) ; [Tresoldi, D.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Tresoldi,%20D..QT.&newsearch=true) ; [Ponterio, R.C.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Ponterio,%20R.C..QT.&newsearch=true) ; [Vasi, C.S.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Vasi,%20C.S..QT.&newsearch=true) ; [Salvato, G.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Salvato,%20G..QT.&newsearch=true)  [*Rev. Sci. Instrum.*](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4915264) *84*(2013), [Issue: 9](http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6589054) DOI: [10.1063/1.4819793,](http://dx.doi.org/10.1063/1.4819793) Page(s): 093701 - 093701-8

[**Science China Physics, Mechanics and Astronomy**](http://link.springer.com/journal/11433) **(1)**

[Study on scattering correction in fast neutron tomography at NECTAR facility](http://link.springer.com/article/10.1007/s11433-013-5362-4)

[ShuQuan Liu](http://link.springer.com/search?facet-author=%22ShuQuan+Liu%22), [Thomas Bücherl](http://link.springer.com/search?facet-author=%22Thomas+B%C3%BCcherl%22), [YuBin Zou](http://link.springer.com/search?facet-author=%22YuBin+Zou%22), [Sheng Wang](http://link.springer.com/search?facet-author=%22Sheng+Wang%22), [YuanRong Lu](http://link.springer.com/search?facet-author=%22YuanRong+Lu%22), [ZhiYu Guo](http://link.springer.com/search?facet-author=%22ZhiYu+Guo%22)

[*Science China Physics, Mechanics and Astronomy*](http://link.springer.com/journal/11433) *December 2013*

[**Soil and Tillage Research**](http://www.sciencedirect.com/science/journal/01671987/129/supp/C) **(1)**

[Morphology of physical soil crusts and infiltration patterns in an artificial catchment](http://www.sciencedirect.com/science/article/pii/S0167198713000032)
Annika Badorreck, Horst H. Gerke, Reinhard F. Hüttl

*Soil and Tillage Research*, *Volume 129*, *May 2013*, *Pages 1-8*

[**Vadose Zone Journal**](https://www.soils.org/publications/vzj) **(1)**

[Diffusivity and sorptivity of Berea sandstone determined using neutron radiography](http://dx.doi.org/10.2136/vzj2012.0135)

Kang M., Perfect E., Cheng C. L., Bilheux H. Z., Gragg M., Wright D. M., Lamanna J. M., Horita J., Warren J. M.,

*Vadose Zone Journal* *12, (2013).*

**2012**

Total number of papers listed: 105

[**Acta Physica Polonica A**](http://przyrbwn.icm.edu.pl/APP/apphome.html) **(2)​**

Application of Statistical Image Analysis in Quantification of Neutron Radiography Images of Drying
I.M. Fijał-Kirejczyk J.J. Milczarek J. Żołądek-Nowak F.C. de Beer M.J. Radebe G. Nothnagel
*Acta Physica Polonica A 2012 tom 122 nr 2 410-414*

 Transient Thermal Phenomena during Spontaneous Water Migration in Zeolite Beds
J. Żołądek-Nowak J.J. Milczarek I.M. Fijał-Kirejczyk J. Żołądek Z. Jurkowski,
*Acta Physica Polonica A2012 Vol. 122 no. 2 415-418*

**​**[**Applied Physics Letters**](http://apl.aip.org/) **(1)**

Observation of partial Meissner effect and flux pinning in superconducting lead containing non-superconducting parts
W. Treimer, O. Ebrahimi, and N. Karakas
*Appl. Phys. Lett. 101, 162603 (2012)*

**​**[**Applied Radiation and Isotopes**](http://www.sciencedirect.com/science/journal/09698043) **(4)​**

Spatial resolution limit study of a CCD camera and scintillator based neutron imaging system according to MTF determination and analysis
F. Kharfi, O. Denden, A. Bourenane, T. Bitam, A. Ali
*Applied Radiation and Isotopes, Volume 70, Issue 1, January 2012, Pages 162-166*

 Neutron phase contrast imaging beamline at CIRUS reactor, India
Yogesh S. Kashyap, Ashish Agrawal, P.S. Sarkar, Mayank Shukla, T. Roy, Amar Sinha
*Applied Radiation and Isotopes, Volume 70, Issue 4, April 2012, Pages 625-631*

​A digital approach to neutron-gamma imaging with a narrow tungsten collimator aperture and a fast organic liquid scintillator detector
K.A.A. Gamage, M.J. Joyce, G.C. Taylor
*Applied Radiation and Isotopes, Volume 70, Issue 7, July 2012, Pages 1223-1227*

Characterization and MCNP simulation of neutron energy spectrum shift after transmission through strong absorbing materials and its impact on tomography reconstructed image
N. Hachouf, F. Kharfi, A. Boucenna
*Applied Radiation and Isotopes, Volume 70, Issue 10, October 2012, Pages 2355-2361*

​​​[**Archaeometry**](http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291475-4754/issues) **(1)**

​​Neutron tomographic assessment of incisions on prehistoric stone slabs: a case study from Wonderwerk Cave, South Africa

L. Jacobson, F.C. de Beer, R. Nshimirana, L.K. Horwitz and M. Chazan

*Archaeometry (online publication 30 Mar 2012)*

**​**[**Brazilian Journal of Physics**](http://www.springer.com/physics/journal/13538)  **(1)​**

A Simple Setup for Neutron Tomography at the Portuguese Nuclear Research Reactor
M. A. Stanojev Pereira, J. G. Marques, R. Pugliesi

*Brazilian Journal of Physics Volume 42 December 2012 Issues 5-6 pp 360-364*

**​​**[**Current Opinion in Colloid & Interface Science**](http://www.sciencedirect.com/science/journal/13590294) **(1)​**

X-ray and neutron imaging with colloids
Thomas A. Waigh, Christoph Rau
*Current Opinion in Colloid & Interface Science, Volume 17, Issue 1, February 2012, Pages 13-22*

**​**[**Cement and Concrete Research**](http://www.sciencedirect.com/science/journal/aip/00088846)**(1)​**

 Visualization of water penetration in cementitious materials with superabsorbent polymers by means of neutron radiography
D. Snoeck, S. Steuperaert, K. Van Tittelboom, P. Dubruel, N. De Belie
*Cement and Concrete Research, Volume 42, Issue 8, August 2012, Pages 1113-1121*

**​​**[**Electrochemistry Communications**](http://www.sciencedirect.com/science/journal/13882481)**(1)​**

​Simultaneous neutron imaging of six operating PEFCs: Experimental set-up and study of the MPL effect
P. Oberholzer, P. Boillat, R. Siegrist, A. Kästner, E.H. Lehmann, G.G. Scherer, A. Wokaun
*Electrochemistry Communications, Volume 20, July 2012, Pages 67-70*

**​​**[**Electrochimica Acta**](http://www.sciencedirect.com/science/journal/00134686)**(3)​**

​Subfreezing operation of polymer electrolyte fuel cells: Ice formation and cell performance loss
Jeffrey Mishler, Yun Wang, Partha P. Mukherjee, Rangachary Mukundan, Rodney L. Borup
*Electrochimica Acta, Volume 65, 30 March 2012, Pages 127-133*

​Direct measurement of lithium transport in graphite electrodes using neutrons
Jon P. Owejan, Jeffrey J. Gagliardo, Stephen J. Harris, Howard Wang, Daniel S. Hussey, David L. Jacobson
*Electrochimica Acta, Volume 66, 1 April 2012, Pages 94-99*

​Probing the water content in polymer electrolyte fuel cells using neutron radiography
Jeffrey Mishler, Yun Wang, Rangachary Mukundan, Jacob Spendelow, Daniel S. Hussey, David L. Jacobson, Rodney L. Borup
*Electrochimica Acta, Volume 75, 30 July 2012, Pages 1-10*

**​​**[**The European Physical Journal Applied Physics**](http://epjap.epj.org/)**(1)​**

​Microfracturation in rocks: from microtomography images to processes
F. Renard
*Eur. Phys. J. Appl. Phys. (2012) 60: 24203*

[**The European Physical Journal Special Topics**](http://epjst.epj.org/)**(2)​**

​Nanometric confinement: Toward new physical properties and technological developments
J.-M. Zanotti, K. Lagrené, N. Malikova, P. Judeinstein, K. Panesar, J. Ollivier, S. Rols, M. Mayne-L’Hermite, M. Pinault and P. Boulanger
*Eur. Phys. J. Special Topics 213, 129-148 (2012)*

​Neutrons for fuel cell membranes: Structure, sorption and transport properties
S. Lyonnard and G. Gebel
*Eur. Phys. J. Special Topics 213, 195-211 (2012)*

**​​**[**IEEE Transactions on Nuclear Science**](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=23)**(2)​**

​A Comparison of Collimator Geometries for Imaging Mixed Radiation Fields With Fast Liquid Organic Scintillators
Gamage, K. A. A.; Joyce, M. J.; Taylor, G. C.
*Nuclear Science, IEEE Transactions on ,Volume 59, No. 4, Part 2 Aug. 2012*

​High Resolution Neutron Resonance Absorption Imaging at a Pulsed Neutron Beamline
Tremsin, A. S.; McPhate, J. B.; Vallerga, J. V.; Siegmund, O. H. W.; Kockelmann, W.; Schooneveld, E. M.; Rhodes, N. J.; Feller, W. B.
*Nuclear Science, IEEE Transactions on ,Volume 59, No. 6, Part 2 Dec. 2012*

**​**[**International Journal of Heat and Mass Transfer**](http://www.sciencedirect.com/science/journal/00179310)**(1)​**

​Visualization and quantification of liquid water transport in softwood by means of neutron radiography
Marjan Sedighi-Gilani, Michele Griffa, David Mannes, Eberhard Lehmann, Jan Carmeliet, Dominique Derome
*International Journal of Heat and Mass Transfer, Volume 55, Issues 21–22, October 2012, Pages 6211-6221*

**​​**[**International Journal of Hydrogen Energy**](http://www.sciencedirect.com/science/journal/03603199)**(3)​**

​Behavior of scaled-up sodium alanate hydrogen storage tanks during sorption
José M. Bellosta von Colbe, Oliver Metz, Gustavo A. Lozano, P. Klaus Pranzas, Heinz W. Schmitz, Felix Beckmann, Andreas Schreyer, Thomas Klassen, Martin Dornheim
*International Journal of Hydrogen Energy, Volume 37, Issue 3, February 2012, Pages 2807-2811*

​Dynamic fuel cell gas humidification system
R. Kuhn, Ph. Krüger, S. Kleinau, M. Dawson, J. Geyer, M. Roscher, I. Manke, Ch. Hartnig
*International Journal of Hydrogen Energy, Volume 37, Issue 9, May 2012, Pages 7702-7709*

​3D neutron tomography of a polymer electrolyte membrane fuel cell under sub-zero conditions
Anthony Santamaria, Hong-Yue Tang, Jae Wan Park, Gu-Gon Park, Young-Jun Sohn
*International Journal of Hydrogen Energy, Volume 37, Issue 14, July 2012, Pages 10836-10843*

**​​**[**International Journal of Thermal Sciences**](http://www.sciencedirect.com/science/journal/12900729)**(2)​**

​Neutron phase volumetry and temperature observations in an oscillating heat pipe
I. Yoon, C. Wilson, B. Borgmeyer, R.A. Winholtz, H.B. Ma, D.L. Jacobson, D.S. Hussey
*International Journal of Thermal Sciences, Volume 60, October 2012, Pages 52-60*

​Experimental investigations on melting of lead in a cuboid with constant heat flux boundary condition using thermal neutron radiography
Lokendra Kumar, B.S. Manjunath, R.J. Patel, S.G. Markandeya, R.G. Agrawal, Ashish Agrawal, Y. Kashyap, P.S. Sarkar, Amar Sinha, K.N. Iyer, S.V. Prabhu
*International Journal of Thermal Sciences, Volume 61, November 2012, Pages 15-27*

**​​**[**Japanese Journal of Applied Physics**](http://jjap.jsap.jp/)**(1)​**

​Cold Neutron Focusing with a Wolter Type-I Mirror
Sadao Aoki, Tsuyoshi Yamamoto, and Jun Furukawa
*Japanese Journal of Applied Physics 51 (2012) 026401 (3 pages)*

**​​**[**Journal of Analytical Atomic Spectrometry**](http://pubs.rsc.org/en/journals/journalissues/ja)**(1)​**

​Quantitative characterization of Japanese ancient swords through energy-resolved neutron imaging
Filomena Salvemini, Francesco Grazzi, Steven Peetermans, Francesco Civita, Riccardo Franci, Stefan Hartmann, Eberhard Lehmann and Marco Zoppi
*J. Anal. At. Spectrom., 2012, 27, 1494-1501
DOI: 10.1039/C2JA30035D*

[**Journal of Applied Physics**](http://jap.aip.org/)**(2)​**

​B4C thin films for neutron detection
Carina Hoglund, Jens Birch, Ken Andersen, Thierry Bigault, Jean-Claude Buffet, Jonathan Correa, Patrick van Esch, Bruno Guerard, Richard Hall-Wilton, Jens Jensen, Anton Khaplanov, Francesco Piscitelli, Christian Vettier, Wilhelmus Vollenberg, and Lars Hultman
*J. Appl. Phys. 111, 104908 (2012)*

​​Accurate measurement of the through-plane water content of proton-exchange membranes using neutron radiography
D. S. Hussey, D. Spernjak, A. Z. Weber, R. Mukundan, J. Fairweather, E. L. Brosha, J. Davey,
J. S. Spendelow, D. L. Jacobson, and R. L. Borup
*J. Appl. Phys. 112, 104906 (2012)*

**​​​**[**Journal of Archaeological Science**](http://www.sciencedirect.com/science/journal/03054403)**(1)​**

​Neutron tomography for the assessment of consolidant impregnation efficiency in Portuguese glazed tiles (16th and 18th centuries)
M.I. Prudêncio, M.A. Stanojev Pereira, J.G. Marques, M.I. Dias, L. Esteves, C.I. Burbidge, M.J. Trindade, M.B. Albuquerque
*Journal of Archaeological Science, Volume 39, Issue 4, April 2012, Pages 964-969*

**​​**[**Journal of Cultural Heritage**](http://www.elsevier.com/journals/journal-of-cultural-heritage/1296-2074)**(5)​**

​Efficiency of neutron tomography in visualizing the internal structure of metal artefacts from Mapungubwe museum collection with the aim of conservation
Farahnaz Koleini, Frikkie de Beer, M.H. Alex Schoeman, Innocent Pikirayi, Shadreck Chirikur, Gawie Nothnagel, Jacob Mabuti Radebe
*Journal of Cultural Heritage, Volume 13, Issue 3, July–September 2012, Pages 246-253*

​Non-destructive testing of wood and wood-based materials
Peter Niemz, David Mannes
*Journal of Cultural Heritage, Volume 13, Issue 3, Supplement, September 2012, Pages S26-S34*

 Wood investigations by means of radiation transmission techniques
Eberhard H. Lehmann, David Mannes
*Journal of Cultural Heritage, Volume 13, Issue 3, Supplement, September 2012, Pages S35-S43*

​Methods to measure the penetration of consolidant solutions into ‘dry’ wood
Irena Kučerová
*Journal of Cultural Heritage, Volume 13, Issue 3, Supplement, September 2012, Pages S191-S195*

​Evaluation of decontamination methods of pesticide contaminated wooden objects in museum collections: Efficiency of the treatments and influence on the wooden structure
Marie Wörle, Vera Hubert, Erwin Hildbrand, Katja Hunger, Eberhard Lehmann, Ingo Mayer, Gaby Petrak, Martin Pracher, Urs von Arx, Stefan Wülfert
*Journal of Cultural Heritage, Volume 13, Issue 3, Supplement, September 2012, Pages S209-S215*

**​​**[**Journal of the Electrochemical Society**](http://www.electrochem.org/dl/jes/)**(2​)​**

​​High-Resolution Neutron Radiography of Through-Plane Liquid Water Distribution in Polymer Electrolyte Membrane and Gas Diffusion Layer Fuel Cells, Electrolyzers, and Energy Conversion
Richard S. Fu, Ugur Pasaogullari,Takeshi Shiomi, Yuichiro Tabuchi, Daniel S. Hussey, and David L. Jacobson
*J. Electrochem. Soc. 2012 159(9): F545-F553; doi:10.1149/2.026209jes*

​Spatially Resolved Phase Analysis in Sodium Metal Halide Batteries: Neutron Diffraction and Tomography Batteries and Energy Storage
M. Hofmann, R. Gilles, Y. Gao, J. T. Rijssenbeek, and M. J. Mühlbauer
*J. Electrochem. Soc. 2012 159(11): A1827-A1833; doi:10.1149/2.058211jes*

**​​**[**Journal of Engineering Materials and Technology**](http://asmedl.org/dbt/dbt.jsp?KEY=JEMTA8&Volume=134)**(1)​**

​Investigation of 6Li Enriched Particle Dispersion in Fluorescent Electrospun Polymer Nanofibers to be Used as Thermal Neutron Scintillators
Stephen A. Young, Indraneel Sen, and Dayakar Penumadu
*J. Eng. Mater. Technol. 134, 010908 (2012)*

**​​**[**Journal of Heat Transfer**](http://asmedl.org/HeatTransfer)**(1)​**

​Neutron Imaging of Progressive Mixing of H2O and D2O inside a Metal (Al) Container
Kenneth D. Kihm, Daniel S. Hussey, David M. Pratt, and Andrew D. Swanson
*J. Heat Transfer 134, 080904 (2012)*

**​​**[**Journal of Instrumentation**](http://iopscience.iop.org/1748-0221/)**(6)​**

​Research and development of a dedicated collimator for 14.2 MeV fast neutrons for imaging using a D-T generator
I Sabo-Napadensky, R Weiss-Babai, A Gayer, D Vartsky, D Bar, I Mor, R Chacham-Zada, M Cohen and N Tamim
*2012 JINST 7 June C06005 doi:10.1088/1748-0221/7/06/C06005
OPEN ACCESS 2nd International Workshop on Fast Neutron Detectors and Applications, 2011*

Development of epithermal neutron camera based on resonance-energy-filtered imaging with GEM
H Tomita, C Shoda, J Kawarabayashi, T Matsumoto, J Hori, S Uno, M Shoji, T Uchida, N Fukumoto and T Iguchi
*2012 JINST 7 May C05010 doi:10.1088/1748-0221/7/05/C05010
OPEN ACCESS 2nd International Conference on Micro Pattern Gaseous Detectors (MPGD2011)*

Feasibility of a large area detector for fast neutron imaging
E Bogolubov, A Koshelev, V Mikerov and A Sviridov
*2012 JINST 7 March C03034 doi:10.1088/1748-0221/7/03/C03034
OPEN ACCESS 2nd International Workshop on Fast Neutron Detectors and Applications, 2011*

Detection system for microimaging with neutrons
S H Williams, A Hilger, N Kardjilov, I Manke, M Strobl, P A Douissard, T Martin, H Riesemeier and J Banhart
*2012 JINST 7 Feb. P02014 doi:10.1088/1748-0221/7/02/P02014
OPEN ACCESS*

Concept of a novel fast neutron imaging detector based on THGEM for fan-beam tomography applications
M Cortesi, R Zboray, R Adams, V Dangendorf and H -M Prassera
*2012 JINST 7 Feb. C02056 doi:10.1088/1748-0221/7/02/C02056
OPEN ACCESS 2nd International Workshop on Fast Neutron Detectors and Applications, 2011*

ANTS — a simulation package for secondary scintillation Anger-camera type detector in thermal neutron imaging
A Morozov, I Defendi, R Engels, F A F Fraga, M M F R Fraga, B Guerard, M Jurkovic, G Kemmerling, G Manzin, L M S Margato, H Niko, L Pereira, C Petrillo, A Peyaud, F Piscitelli, D Raspino, N J Rhodes, F Sacchetti, E M Schooneveld, P Van Esch and K Zeitelhack
*2012 JINST 7 August P08010 doi:10.1088/1748-0221/7/08/P08010
OPEN ACCESS*

**​​**[**​Journal of Nuclear Materials**](http://www.sciencedirect.com/science/journal/00223115)**​  (3)​**

Secondary hydriding during LOCA – Results from the QUENCH-L0 test
Mirco Grosse, Juri Stuckert, Martin Steinbrück and Anders Kaestner
*Journal of Nuclear Materials, Volume 420, Issues 1–3, January 2012, Pages 575-582*

 Study of hydride blisters in Zr-alloy using neutron tomography
Ashish Agrawal, Yogesh Kashyap, P.S. Sarkar, A.N. Behra, M. Shukla, R.N. Singh, Amar Sinha and J.K. Chakravartty
*Journal of Nuclear Materials, Volume 421, Issues 1–3, February 2012, Pages 47-53*

​Texture imaging of zirconium based components by total neutron cross-section experiments
J.R. Santisteban, M.A. Vicente-Alvarez, P. Vizcaino, A.D. Banchik, S.C. Vogel, A.S. Tremsin, J.V. Vallerga, J.B. McPhate, E. Lehmann and W. Kockelmann
*Journal of Nuclear Materials, Volume 425, Issues 1–3, June 2012, Pages 218-227*

**​**[**​​**](http://link.springer.com/journal/10853)[**​​**](http://www.springer.com/materials/journal/10853)**​​​**[**Journal of Materials Science**](http://www.springer.com/materials/journal/10853)**(1)**

​Application of neutron radiography to study material processes during hypothetical severe accidents in nuclear reactors

M. Grosse, M. Steinbrück, J. Stuckert, A. Kastner and B. Schillinger​

*Journal of Materials Science, 47 Issue 18 Sept 2012, pp 6505-6512*

**​**[**Journal of Physics : Conference Series**](http://iopscience.iop.org/1742-6596/)**(5)​**

 Suppressed Meissner-effect in Niobium: Visualized with polarized neutron radiography

S. Aull, O. Ebrahimi, N. Karakas, J. Knobloch, O. Kugeler and W. Treimer

*Journal of Physics: Conference Series 340 (2012) 012001*

 A new imaging method using pulsed neutron sources for visualizing structural and dynamical information
Y Kiyanagi, H Sato, T Kamiyama and T Shinohara
*Journal of Physics: Conference Series 340 (2012), 012010*

​​Research toward the development of compact neutron interference imaging instrument with gratings

Yoshié Otake, Margie Olbinado, Yoshichika Seki, Katsuya Hirota, Yutaka Yamagata, Jungmyoung Ju, Tomohiro Adach, I Shinya Morita, Yoshihisa Iwashita, Masahiro Hino, Masahiro Ichikawa, Masaaki kitaguchi, Toshio Takahashi, Hideki Yoshizawa, Seung Wook Lee, Wataru Yashiro and Atsushi Momose

[*Journal of Physics: Conference Series*](http://iopscience.iop.org/1742-6596/)[*340 (2012)*](http://iopscience.iop.org/1742-6596/340) *012035*

Neutronographic Texture Analysis of Zirconium Based Alloys

M. Kruželová, S. Vratislav, L. Kalvoda and M. Dlouhá

[*Journal of Physics: Conference Series*](http://iopscience.iop.org/1742-6596/)[*340 (2012)*](http://iopscience.iop.org/1742-6596/340) *012095*

In-situ investigation of hydrogen diffusion in Zircaloy-4 by means of neutron radiography​

M. Grosse, M. van den Berg, C. Goulet and A. Kaestner ​

*Journal of Physics: Conference Series 340 (2012), 012106*

**​​**[**Journal of Power Sources**](http://www.sciencedirect.com/science/journal/03787753)**(2)​**

​​“In-operando” neutron scattering studies on Li-ion batteries
A. Senyshyn, M.J. Mühlbauer, K. Nikolowski, T. Pirling, H. Ehrenberg
*Journal of Power Sources, Volume 203, 1 April 2012, Pages 126-129*

​Neutron tomographic investigations of water distributions in polymer electrolyte membrane fuel cell stacks
Henning Markötter, Ingo Manke, Robert Kuhn, Tobias Arlt, Nikolay Kardjilov, Manfred P. Hentschel, Andreas Kupsch, Axel Lange, Christoph Hartnig, Joachim Scholta, John Banhart
*Journal of Power Sources, Volume 219, 1 December 2012, Pages 120-125*

**​​​**[**Journal of Radioanalytical and Nuclear Chemistry**](http://link.springer.com/journal/10967)**(1)**

​Design and development of a neutron/X-ray combined computer tomography system at Missouri S&T

V. Sinha, A.V. Avachat and H.J. Lee

*Journal of Radioanalytical and Nuclear Chemistry, August 2012*

**​**[**The Journal of Supercritical Fluids**](http://www.sciencedirect.com/science/journal/08968446)**(1)​**

​Neutron radiography on tubular flow reactor for hydrothermal synthesis: In situ monitoring of mixing behavior of supercritical water and room-temperature water
Seiichi Takami, Ken-ichi Sugioka, Takao Tsukada, Tadafumi Adschiri, Katsumi Sugimoto, Nobuyuki Takenaka, Yasushi Saito
*The Journal of Supercritical Fluids, Volume 63, March 2012, Pages 46-51*

**​**[**Journal of Thermal Analysis and Calorimetry**](http://link.springer.com/journal/volumesAndIssues/10973)**(1)​**

​Imaging and diffusion structural diagnostics of silicon carbide-based composites and fibers
H. Tatlisu, V. Balek, I. N. Beckman, N. Kardjilov, A. Hilger, H. Rauch
*Journal of Thermal Analysis and Calorimetry, February 2012, Volume 107, Issue 2, pp 447-452*

**​**[**Materials and Structures**](http://link.springer.com/journal/volumesAndIssues/11527)**(1)**

 Use of neutron radiography and tomography to visualize the autonomous crack sealing efficiency in cementitious materials
Kim Van Tittelboom, Didier Snoeck, Peter Vontobel, Folker H. Wittmann, Nele De Belie
*Materials and Structures July 2012*

**​​**[**NDT & E International**](http://www.sciencedirect.com/science/journal/09638695)**(1)​**

​Combining neutron diffraction and imaging for residual strain measurements in a single crystal turbine blade
S. Pierret, A. Evans, A.M. Paradowska, A. Kaestner, J. James, T. Etter, H. Van Swygenhoven
*NDT & E International, Volume 45, Issue 1, January 2012, Pages 39-45*

**​​​**[**Neutron News**](http://www.tandfonline.com/loi/gnnw20)**(1)**

​High resolution neutron counting detectors with microchannel plates and their applications in neutron radiography, diffraction and resonance absorption imaging
A. S. Tremsin
*Neutron News Volume 23, Issue 4, 2012 pages 35-38 DOI: 10.1080/10448632.2012.725341
06 Nov 2012*

[**Nuclear Instruments and Methods in Physics Research Section A**](http://www.sciencedirect.com/science/journal/01689002)**(17)​**

​Investigation of fuel cells using scanning neutron imaging and a focusing neutron guide
C. Tötzke, I. Manke, T. Arlt, H. Markötter, N. Kardjilov, A. Hilger, S.H. Williams, P. Krüger, R. Kuhn, C. Hartnig, J. Scholta, J. Banhart
*Nuclear Instruments and Methods in Physics Research Section A, Volume 663, Issue 1, 21 January 2012, Pages 48-54*

​Rattling nucleons: New developments in active interrogation of special nuclear material  - Review Article
Robert C. Runkle, David L. Chichester, Scott J. Thompson
*Nuclear Instruments and Methods in Physics Research Section A, Volume 663, Issue 1, 21 January 2012, Pages 75-95*

​Investigation of phase transfer properties of light and heavy water by means of energy selective neutron imaging
L. Josic, E.H. Lehmann, D. Mannes, N. Kardjilov, A. Hilger
*Nuclear Instruments and Methods in Physics Research Section A, Volume 670, 1 April 2012, Pages 68-72*

Quantitative imaging of freezing at the millimeter scale using neutron radiography
A.J. Gilbert, M.R. Deinert
*Nuclear Instruments and Methods in Physics Research Section A, Volume 671, 11 April 2012, Pages 118-124*

​Development of a novel direction-position sensing fast neutron detector using tensioned metastable fluids
Brian C. Archambault, Jeffrey A. Webster, Joseph R. Lapinskas, Thomas F. Grimes, Rusi Taleyarkhan
*Nuclear Instruments and Methods in Physics Research Section A, Volume 673, 1 May 2012, Pages 89-97*

​Noise evaluation of a digital neutron imaging device
Radoslaw Lewandowski, Lei Cao, Danyal Turkoglu
*Nuclear Instruments and Methods in Physics Research Section A, Volume 674, 11 May 2012, Pages 46-50*

​Solid state detector for high spatial resolution coupled to a single event acquisition system for slow neutron detection
F. Casinini, C. Petrillo, F. Sacchetti
*Nuclear Instruments and Methods in Physics Research Section A, Volume 675, 21 May 2012, Pages 1-7*

​Large area imaging of hydrogenous materials using fast neutrons from a DD fusion generator
J.T. Cremer, D.L. Williams, C.K. Gary, M.A. Piestrup, D.R. Faber, M.J. Fuller, J.H. Vainionpaa, M. Apodaca, R.H. Pantell, J. Feinstein
*Nuclear Instruments and Methods in Physics Research Section A, Volume 675, 21 May 2012, Pages 51-55*

​A dynamically adjustable wavelength-sensitive neutron filter
N.D. Vasilev, T.R. Charlton, O. Kirichek, C.J. Kinane, E.M. Schooneveld, S. Langridge, W.A. Kockelmann, P.V.E. McClintock
*Nuclear Instruments and Methods in Physics Research Section A, Volume 677, 11 June 2012, Pages 1-3*

​Development of a CdTe thermal neutron detector for neutron imaging
Aki Miyake, Takahiro Nishioka, Shailendra Singh, Hisashi Morii, Hidenori Mimura, Toru Aoki
*Nuclear Instruments and Methods in Physics Research Section A, Volume 677, 11 June 2012, Pages 41-44*

​The modeling of a linear multi-beam deuteron compact accelerator for neutron generation
Wagner L. Araujo, Tarcisio P.R. Campo
*Nuclear Instruments and Methods in Physics Research Section A, Volume 679, 1 July 2012, Pages 97-102*

​Time-of-flight neutron imaging for spatially resolved strain investigations based on Bragg edge transmission at a reactor source
M. Strobl, R. Woracek, N. Kardjilov, A. Hilger, R. Wimpory, A. Tremsin, T. Wilpert, C. Schulz, I. Manke, D. Penumadu
*Nuclear Instruments and Methods in Physics Research Section A, Volume 680, 11 July 2012, Pages 27-34*

​Influence of powder particle size and scintillator layer thickness on the performance of Gd2O2S:Tb scintillators for neutron imaging
R. Yasuda, M. Katagiri, M. Matsubayashi
*Nuclear Instruments and Methods in Physics Research Section A, Volume 680, 11 July 2012, Pages 139-144*

​Neutron radiography with sub-15 μm resolution through event centroiding
Anton S. Tremsin, Jason B. McPhate, John V. Vallerga, Oswald H.W. Siegmund, W. Bruce Feller, Eberhard Lehmann, Anders Kaestner, Pierre Boillat, Tobias Panzner, Uwe Filges
*Nuclear Instruments and Methods in Physics Research Section A, Volume 688, 1 October 2012, Pages 32-40*

​Reconstruction algorithm for point source neutron imaging through finite thickness scintillator
H. Wang, V. Tang, J. McCarrick, S. Moran
*Nuclear Instruments and Methods in Physics Research Section A, Volume 693, 21 November 2012, Pages 294-301*

​Analysis of a measured neutron background below 6 MeV for fast-neutron imaging systems
K. Ide, M.F. Becchetti, M. Flaska, A. Poitrasson-Riviere, M.C. Hamel, J.K. Polack, C.C. Lawrence, S.D. Clarke, S.A. Pozzi
*Nuclear Instruments and Methods in Physics Research Section A, Volume 694, 1 December 2012, Pages 24-31*

​Results and error analysis of a reference voxel normalization method for neutron computed tomography partial volume voxel water quantification
A.K. Heller, L. Shi, J.S. Brenizer
*Nuclear Instruments and Methods in Physics Research Section A, Volume 694, 1 December 2012, Pages 263-270*

**​​**[**Nuclear Instruments and Methods in Physics Research Section B**](http://www.sciencedirect.com/science/journal/0168583X)**(1)​**

​Set-up and calibration of a method to measure 10B concentration in biological samples by neutron autoradiography
M.A. Gadan, S. Bortolussi, I. Postuma, F. Ballarini, P. Bruschi, N. Protti, D. Santoro, S. Stella, L. Cansolino, A. Clerici, C. Ferrari, A. Zonta, C. Zonta, S. Altieri
*Nuclear Instruments and Methods in Physics Research Section B, Volume 274, 1 March 2012, Pages 51-56*

**​​**[**Physical Chemistry Chemical Physics**](http://pubs.rsc.org/en/journals/journalissues/cp)**(1)​**

​Investigation of the role of the micro-porous layer in polymer electrolyte fuel cells with hydrogen deuterium contrast neutron radiography
Kyu Taek Cho and Matthew M. Mench
*Phys. Chem. Chem. Phys., 2012, 14, 4296-4302 DOI: 10.1039/C2CP23686A*

**​​**[**Physical Review B**](http://publish.aps.org/about)**(1)​**

​Polarized neutron imaging and three-dimensional calculation of magnetic flux trapping in bulk of superconductors
Wolfgang Treimer, Omid Ebrahimi, Nursel Karakas, and Ruslan Prozorov
*Phys. Rev. B 85, 184522 – Published 17 May 2012*

**​**[**Physical Review Letters**](http://prl.aps.org/)**(1)​**

Assembly of High-Areal-Density Deuterium-Tritium Fuel from Indirectly Driven Cryogenic Implosions
A. J. Mackinnon et al.
*Phys. Rev. Lett. 108, 215005 – Published 24 May 2012*

**​​​**[**Physics Procedia**](http://www.sciencedirect.com/science/journal/18753892)**(7)​**

​The Impact on Science and Technology of University-Based, Accelerator-Driven, Compact Neutron and Proton Sources: A Case in Point in China
C. -K. Loong, Jie Wei, Xialing Guan, Xuewu Wang
*Physics Procedia, Volume 26, 2012, Pages 8-18*

​Neutron radiography with compact accelerator at Peking University: Problems and solutions
Zhiyu Guo, Yubin Zou, Yuanrong Lu, Xueqing Yan, Shixiang Peng, Kun Zhu, Guoyou Tang, Dawei Mo, Jiaer Chen
*Physics Procedia, Volume 26, 2012, Pages 70-78*

​Neutronic studies on a pulsed thermal neutron source based on the Be(p,n) reaction by using a compact proton accelerator
Hiroyuki Hasemi, Fujio Hiraga, Yoshiaki Kiyanagi
*Physics Procedia, Volume 26, 2012, Pages 88-96*

​Two-dimensional Neutron Detector with GEM and its Applications
S. Uno, T. Uchida, M. Sekimoto, T. Murakami, K. Miyama, M. Shoji, E. Nakano, T.Koike, K. Morita, H. Satoh, T.Kamiyama, Y. Kiyanagi
*Physics Procedia, Volume 26, 2012, Pages 142-152*

​Recent progress of pulsed neutron imaging in Japan
Yoshikai Kiyanagi, Hirotaka Sato, Kenji Iwase, Takashi Kamiyama
*Physics Procedia, Volume 26, 2012, Pages 219-222*

​Time-of-flight neutron radiography with a blanking-type image intensifier
Takashi Kamiyama, Yoshiaki Kiyanagi
*Physics Procedia, Volume 26, 2012, Pages 231-237*

​Development of a Two-Dimensional Gaseous Detector for Energy-Selective Neutron Radiography
S. Uno, T. Uchida, M. Sekimoto, T. Murakami, K. Miyama, M. Shoji, E. Nakano, T. Koike
*Physics Procedia, Volume 37, 2012, Pages 600-605*

**​​**[**Radiation Physics and Chemistry**](http://www.sciencedirect.com/science/journal/0969806X)**(1)​**

​Design and simulation of neutron radiography system based on 241Am–Be source
H. Jafari, S.A.H. Feghhi
*Radiation Physics and Chemistry, Volume 81, Issue 5, May 2012, Pages 506-511*

**​​**[**Review of Scientific Instruments**](http://rsi.aip.org/)**(7)​**

​Deuteron injector for Peking University Neutron Imaging Facility project
Ren, H. T.; Peng, S. X.; Lu, P. N.; Zhou, Q. F.; Yuan, Z. X.; Zhao, J.; Zhang, M.; Song, Z. Z.; Yu, J. X.; Guo, Z. Y.; Chen, J. E.
*Review of Scientific Instruments Volume: 83 , Issue: 2*

 Development of the large neutron imaging system for inertial confinement fusion experiments
Caillaud, T.; Landoas, O.; Briat, M.; Kime, S.; Rosse, B.; Thfoin, I.; Bourgade, J. L.; Disdier, L.; Glebov, V. Yu.; Marshall, F. J.; Sangster, T. C.
*Review of Scientific Instruments Volume: 83 , Issue: 3*

​A new aperture for neutron and x-ray imaging of inertial confinement fusion experiments
Danly, C. R.; Grim, G. P.; Guler, N.; Intrator, M. H.; Merrill, F. E.; Volegov, P.; Wilde, C. H.
*Review of Scientific Instruments Volume: 83 , Issue: 10*

​Restoring transmission of irradiated image fiber bundles
Chrobak, C. P.; Van Zeeland, M. A.; Moyer, R. A.; Yu, J. H.
*Review of Scientific Instruments Volume: 83 , Issue: 10*

​Simultaneous usage of pinhole and penumbral apertures for imaging small scale neutron sources from inertial confinement fusion experiments
Guler, N.; Volegov, P.; Danly, C. R.; Grim, G. P.; Merrill, F. E.; Wilde, C. H.
*Review of Scientific Instruments Volume: 83 , Issue: 10*

​A new compact, high sensitivity neutron imaging system
Caillaud, T.; Landoas, O.; Briat, M.; Rosse, B.; Thfoin, I.; Philippe, F.; Casner, A.; Bourgade, J. L.; Disdier, L.; Glebov, V. Yu.; Marshall, F. J.; Sangster, T. C.; Park, H. S.; Robey, H. F.; Amendt, P.
Review of Scientific Instruments Volume: 83 , Issue: 10

​The neutron imaging diagnostic at NIF (invited)
Merrill, F. E.; Bower, D.; Buckles, R.; Clark, D. D.; Danly, C. R.; Drury, O. B.; Dzenitis, J. M.; Fatherley, V. E.; Fittinghoff, D. N.; Gallegos, R.; Grim, G. P.; Guler, N.; Loomis, E. N.; Lutz, S.; Malone, R. M.; Martinson, D. D.; Mares, D.; Morley, D. J.; Morgan, G. L.; Oertel, J. A.; Tregillis, I. L.; Volegov, P. L.; Weiss, P. B.; Wilde, C. H.; Wilson, D. C.
*Review of Scientific Instruments Volume: 83 , Issue: 10*

**​​**[**Soil Science Society of America Journal  (1)​**](https://www.soils.org/publications/sssaj)

​Average soil water retention curves measured by neutron radiography

C.L. Cheng, M. Kang, E. Perfect, S. Voisin, J. Horita, H.Z. Bilheux, J.M. Warren, D.L. Jacobson and D.S. Hussey

*Soil Science Society of America Journal, 76(4) pp 1184-1191 (2012)*

**​**[**Vadose Zone Journal**](https://www.soils.org/publications/sssaj)**(5)​**

​​Effects of Ground-Dwelling Beetle Burrows on Infiltration Patterns and Pore Structure of Initial Soil Surfaces
Annika Badorreck, Horst H. Gerke, and Reinhard F. Hüttl
*Vadose Zone Journal, February 2012, v. 11, p. vzj2011.0109, doi:10.2136/vzj2011.0109*

​​Water Dynamics of the Root Zone: Rhizosphere Biophysics and Its Control on Soil Hydrology
A.G. Bengough
*Vadose Zone Journal, May 2012, v. 11, p. vzj2011.0111, doi:10.2136/vzj2011.0111*

 Quantification and Modeling of Local Root Water Uptake Using Neutron Radiography and Deuterated Water
M. Zarebanadkouki, Y.X. Kim, A.B. Moradi, H.-J. Vogel, A. Kaestner, and A. Carminati
*Vadose Zone Journal, August 2012, v. 11, p. vzj2011.0196, doi:10.2136/vzj2011.0196*

​Is the Rhizosphere Temporarily Water Repellent?
Ahmad B. Moradi, Andrea Carminati, Axel Lamparter, Susanne K. Woche, Jörg Bachmann, Doris Vetterlein, Hans-Jörg Vogel, and Sascha E. Oswald
*Vadose Zone Journal, August 2012, v. 11, p. vzj2011.0120, doi:10.2136/vzj2011.0120*

​A Model of Root Water Uptake Coupled with Rhizosphere Dynamics
A. Carminati
*Vadose Zone Journal, August 2012, v. 11, p. vzj2011.0106, doi:10.2136/vzj2011.0106*

​