**NEUTRON RADIOGRAPHIC IMAGING PAPERS published in 2020**

15th Feb 2020

KEYWORDS: Neutron Radiography, Neutron Imaging, Neutron Tomography

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Total number of papers listed : 61

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[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+T+A), [G. J. M. Formon](https://aip.scitation.org/author/Formon%2C+G+J+M), [P. Dunne](https://aip.scitation.org/author/Dunne%2C+P), [T. M. Hermans](https://aip.scitation.org/author/Hermans%2C+T+M), [F. Ott](https://aip.scitation.org/author/Ott%2C+F), [L. Noirez](https://aip.scitation.org/author/Noirez%2C+L) and [J. M. D. Coey](https://aip.scitation.org/author/Coey%2C+J+M+D)

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

*January 2020*

[**ArXiv**](https://arxiv.org/) **(2)**

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)]

[**EPJ Web of Conferences**](https://www.epj-conferences.org/) **(3)**

[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,

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*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

*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

*Published online: 20 January 2020*

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

[**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*

[**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](http://europepmc.org/article/MED/31982714).

[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*

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

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[**Nature Communications**](https://www.mrforum.com/mrp/) **(1)**

[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" \l "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" \l "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)*

[**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*

[**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) **(2)**

[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*

[**Review of Scientific Instruments**](https://aip.scitation.org/rsi/info/policies) **(1)**

[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+Jay+T+Jr)*,*[Hanno Filter](https://aip.scitation.org/author/Filter%2C+Hanno)*,*[Jürgen Klepp](https://aip.scitation.org/author/Klepp%2C+J%C3%BCrgen)*,*[Peter Geltenbort](https://aip.scitation.org/author/Geltenbort%2C+Peter)*,*[Charles Dewhurst](https://aip.scitation.org/author/Dewhurst%2C+Charles)*,*[Tatsuro Oda](https://aip.scitation.org/author/Oda%2C+Tatsuro)*, and*[Richard H. Pantell](https://aip.scitation.org/author/Pantell%2C+Richard+H)

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

[**Scriptia 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, Hiroyuki Fukuyama

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