**NEUTRON RADIOGRAPHIC IMAGING PAPERS published in 2019**

 13th Apr 2020

KEYWORDS: Neutron Radiography, Neutron Imaging, Neutron Tomography

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

 Total number of papers listed : 63

[**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

[**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

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[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*

[**ArXiv.org**](https://www.sciencedirect.com/journal/advances-in-water-resources) **(1)**

[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

17-09-2019

[**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

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[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

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[**Cement and Concrete Research**](https://www.sciencedirect.com/journal/cement-and-concrete-research/vol/118/suppl/C) **(2)**

[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

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[**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

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[**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

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[**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)

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[**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=)

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[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#!)

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