

Eberhard H Lehmann

List of Publications by Year in descending order

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240
papers

8,592
citations

43973

48
h-index

66788

78
g-index

245
all docs

245
docs citations

245
times ranked

5071
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of soil water content in the rhizosphere. <i>Plant and Soil</i> , 2010, 332, 163-176.	1.8	308
2	In situ diagnostic of two-phase flow phenomena in polymer electrolyte fuel cells by neutron imaging. <i>Electrochimica Acta</i> , 2005, 50, 2603-2614.	2.6	306
3	The ICON beamline – A facility for cold neutron imaging at SINQ. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 659, 387-393.	0.7	224
4	In situ observation of the water distribution across a PEFC using high resolution neutron radiography. <i>Electrochemistry Communications</i> , 2008, 10, 546-550.	2.3	208
5	Neutron Phase Imaging and Tomography. <i>Physical Review Letters</i> , 2006, 96, 215505.	2.9	194
6	Imaging and image processing in porous media research. <i>Advances in Water Resources</i> , 2008, 31, 1174-1187.	1.7	183
7	In situ diagnostic of two-phase flow phenomena in polymer electrolyte fuel cells by neutron imaging. <i>Electrochimica Acta</i> , 2006, 51, 2715-2727.	2.6	158
8	Energy-selective neutron transmission imaging at a pulsed source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 578, 421-434.	0.7	152
9	The micro-setup for neutron imaging: A major step forward to improve the spatial resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 389-396.	0.7	151
10	Three-dimensional visualization and quantification of water content in the rhizosphere. <i>New Phytologist</i> , 2011, 192, 653-663.	3.5	140
11	Internal curing with lightweight aggregate produced from biomass-derived waste. <i>Cement and Concrete Research</i> , 2014, 59, 24-33.	4.6	111
12	Sorption kinetics of superabsorbent polymers (SAPs) in fresh Portland cement-based pastes visualized and quantified by neutron radiography and correlated to the progress of cement hydration. <i>Cement and Concrete Research</i> , 2015, 75, 1-13.	4.6	111
13	Methods of scattering corrections for quantitative neutron radiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 542, 353-360.	0.7	109
14	Quantitative Imaging of Infiltration, Root Growth, and Root Water Uptake via Neutron Radiography. <i>Vadose Zone Journal</i> , 2008, 7, 1035-1047.	1.3	107
15	Neutron imaging of water penetration into cracked steel reinforced concrete. <i>Physica B: Condensed Matter</i> , 2010, 405, 1866-1871.	1.3	100
16	Neutron tomography: Method and applications. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 475-480.	1.3	99
17	Highly absorbing gadolinium test device to characterize the performance of neutron imaging detector systems. <i>Review of Scientific Instruments</i> , 2007, 78, 053708.	0.6	98
18	Release of internal curing water from lightweight aggregates in cement paste investigated by neutron and X-ray tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 651, 244-249.	0.7	92

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19	Observation of the Crossover from Two-Gap to Single-Gap Superconductivity through Specific Heat Measurements in Neutron-Irradiated MgB ₂ . <i>Physical Review Letters</i> , 2006, 96, 077003.	2.9	90
20	Neutron radiography, a powerful method to determine time-dependent moisture distributions in concrete. <i>Nuclear Engineering and Design</i> , 2011, 241, 4758-4766.	0.8	90
21	Visualization and quantification of liquid water transport in softwood by means of neutron radiography. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6211-6221.	2.5	87
22	Tomographical Imaging and Mathematical Description of Porous Media Used for the Prediction of Fluid Distribution. <i>Vadose Zone Journal</i> , 2006, 5, 80-97.	1.3	85
23	Influence of oxide layer morphology on hydrogen concentration in tin and niobium containing zirconium alloys after high temperature steam oxidation. <i>Journal of Nuclear Materials</i> , 2009, 385, 339-345.	1.3	85
24	Investigation of water imbibition in porous stone by thermal neutron radiography. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 4284-4291.	1.3	81
25	Neutron radiography as a tool for revealing root development in soil: capabilities and limitations. <i>Plant and Soil</i> , 2009, 318, 243-255.	1.8	81
26	High-speed neutron radiography for monitoring the water absorption by capillarity in porous materials. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 155-163.	0.6	80
27	Improving the Spatial Resolution of Neutron Imaging at Paul Scherrer Institut – The Neutron Microscope Project. <i>Physics Procedia</i> , 2015, 69, 169-176.	1.2	80
28	In situ neutron radiography of lithium-ion batteries: the gas evolution on graphite electrodes during the charging. <i>Journal of Power Sources</i> , 2004, 130, 221-226.	4.0	79
29	Detection efficiency, spatial and timing resolution of thermal and cold neutron counting MCP detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, 140-143.	0.7	76
30	Neutron irradiation of MgB ₂ : From the enhancement to the suppression of superconducting properties. <i>Applied Physics Letters</i> , 2005, 86, 112503.	1.5	74
31	Visualization of root growth in heterogeneously contaminated soil using neutron radiography. <i>European Journal of Soil Science</i> , 2007, 58, 802-810.	1.8	74
32	Observation and quantification of water penetration into Strain Hardening Cement-based Composites (SHCC) with multiple cracks by means of neutron radiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 414-420.	0.7	72
33	Neutron Imaging Resolution Improvements Optimized for Fuel Cell Applications. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B25.	2.2	72
34	Cold-Start of a PEFC Visualized with High Resolution Dynamic In-Plane Neutron Imaging. <i>Journal of the Electrochemical Society</i> , 2011, 159, B235-B245.	1.3	71
35	Neutron imaging – detector options and practical results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 531, 228-237.	0.7	70
36	In situ neutron radiography of lithium-ion batteries during charge/discharge cycling. <i>Journal of Power Sources</i> , 2001, 101, 177-181.	4.0	69

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37	3D neutron computed tomography: requirements and applications. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 59-62.	1.3	67
38	Improved efficiency of high resolution thermal and cold neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 628, 415-418.	0.7	65
39	New features in cold neutron radiography and tomography Part II: applied energy-selective neutron radiography and tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 501, 536-546.	0.7	62
40	Hydrogen distribution measurements by neutrons. <i>Applied Radiation and Isotopes</i> , 2004, 61, 503-509.	0.7	62
41	Non-invasive studies of objects from cultural heritage. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 542, 68-75.	0.7	58
42	Neutron radiography and tomography of water distribution in the root zone. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 757-764.	1.1	57
43	Texture imaging of zirconium based components by total neutron cross-section experiments. <i>Journal of Nuclear Materials</i> , 2012, 425, 218-227.	1.3	57
44	Neutron imaging options at the BOA beamline at Paul Scherrer Institut. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 754, 46-56.	0.7	57
45	Simultaneous neutron imaging of six operating PEFCs: Experimental set-up and study of the MPL effect. <i>Electrochemistry Communications</i> , 2012, 20, 67-70.	2.3	56
46	Analysis of Gas Diffusion Layer and Flow-Field Design in a PEMFC Using Neutron Radiography. <i>Journal of the Electrochemical Society</i> , 2008, 155, B223.	1.3	54
47	Quantitative determination of absorbed hydrogen in oxidised zircaloy by means of neutron radiography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 566, 739-745.	0.7	52
48	Implementation and assessment of the black body bias correction in quantitative neutron imaging. <i>PLoS ONE</i> , 2019, 14, e0210300.	1.1	51
49	Non-destructive analysis of nuclear fuel by means of thermal and cold neutrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 515, 745-759.	0.7	50
50	Neutron radiography with sub-15 $\frac{1}{4}$ μ m resolution through event centroiding. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 688, 32-40.	0.7	49
51	Design of a new CCD-camera neutron radiography detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 399, 382-390.	0.7	47
52	The energy-selective option in neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 603, 429-438.	0.7	47
53	Scattering corrections in neutron radiography using point scattered functions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 542, 336-341.	0.7	46
54	INVESTIGATION OF THE CONTENT OF ANCIENT TIBETAN METALLIC BUDDHA STATUES BY MEANS OF NEUTRON IMAGING METHODS. <i>Archaeometry</i> , 2009, 52, 416-428.	0.6	46

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55	Determination of the impregnation depth of siloxanes and ethylsilicates in porous material by neutron radiography. <i>Journal of Cultural Heritage</i> , 2007, 8, 331-338.	1.5	44
56	High-resolution proxies for wood density variations in <i>Terminalia superba</i> . <i>Annals of Botany</i> , 2011, 107, 293-302.	1.4	44
57	Response of native grasses and <i>Cicer arietinum</i> to soil polluted with mining wastes: Implications for the management of land adjacent to mine sites. <i>Environmental and Experimental Botany</i> , 2009, 65, 198-204.	2.0	43
58	High-resolution neutron microtomography with noiseless neutron counting detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 652, 400-403.	0.7	42
59	THE COMPLEMENTARY USE OF NEUTRONS AND X-RAYS FOR THE NON-DESTRUCTIVE INVESTIGATION OF ARCHAEOLOGICAL OBJECTS FROM SWISS COLLECTIONS*. <i>Archaeometry</i> , 2004, 46, 647-661.	0.6	41
60	Phase-contrast radiography with a polychromatic neutron beam. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 527, 519-530.	0.7	41
61	Analysis of neutron attenuation in boron-alloyed stainless steel with neutron radiography and JEN-3 gauge. <i>Journal of Nuclear Materials</i> , 2005, 341, 189-200.	1.3	41
62	Neutron imaging with Medipix-2 chip and a coated sensor. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 560, 143-147.	0.7	41
63	In-situ neutron radiography investigations of hydrogen diffusion and absorption in zirconium alloys. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 651, 253-257.	0.7	40
64	Transport of water through strain-hardening cement-based composite (SHCC) applied on top of cracked reinforced concrete slabs with and without hydrophobization of cracks – Investigation by neutron radiography. <i>Construction and Building Materials</i> , 2015, 76, 70-86.	3.2	40
65	Water flow between soil aggregates. <i>Transport in Porous Media</i> , 2007, 68, 219-236.	1.2	39
66	Boron Accumulation and Toxicity in Hybrid Poplar (<i>Populus nigra</i> – <i>Populus euramericana</i>). <i>Environmental Science & Technology</i> , 2011, 45, 10538-10543.	4.6	39
67	Quantitative characterization of Japanese ancient swords through energy-resolved neutron imaging. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1494.	1.6	39
68	Impact of Water on PEFC Performance Evaluated by Neutron Imaging Combined with Pulsed Helox Operation. <i>Journal of the Electrochemical Society</i> , 2012, 159, F210-F218.	1.3	38
69	Isotopically-enriched gadolinium-157 oxysulfide scintillator screens for the high-resolution neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 788, 67-70.	0.7	38
70	Design of a neutron radiography facility at the spallation source SINQ. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 377, 11-15.	0.7	37
71	Neutron imaging and neutron tomography as non-destructive tools to study bulk-rock samples. <i>European Journal of Mineralogy</i> , 2002, 14, 349-354.	0.4	37
72	New features in cold neutron radiography and tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 491, 481-491.	0.7	37

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73	Neutron imaging as a tool for the non-destructive evaluation of adhesive joints in aluminium. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 257-267.	1.4	37
74	Scattering correction algorithm for neutron radiography and tomography tested at facilities with different beam characteristics. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 1194-1196.	1.3	37
75	Application areas of synchrotron radiation tomographic microscopy for wood research. <i>Wood Science and Technology</i> , 2010, 44, 67-84.	1.4	37
76	Neutron imaging versus standard X-ray densitometry as method to measure tree-ring wood density. <i>Trees - Structure and Function</i> , 2007, 21, 605-612.	0.9	36
77	Comparison of X-ray and neutron tomography investigations of geological materials. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 338-341.	1.2	35
78	Fuel cell studies with neutrons at the PSI's neutron imaging facilities. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 605, 123-126.	0.7	35
79	Root responses to soil Ni heterogeneity in a hyperaccumulator and a non-accumulator species. <i>Environmental Pollution</i> , 2009, 157, 2189-2196.	3.7	35
80	NEUTRON TOMOGRAPHY AS A VALUABLE TOOL FOR THE NON-DESTRUCTIVE ANALYSIS OF HISTORICAL BRONZE SCULPTURES. <i>Archaeometry</i> , 2010, 52, 272-285.	0.6	35
81	Non-destructive determination and quantification of diffusion processes in wood by means of neutron imaging. <i>Holzforschung</i> , 2009, 63, 589-596.	0.9	34
82	Characterizing saline uptake and salt distributions in porous limestone with neutron radiography and X-ray micro-tomography. <i>Journal of Building Physics</i> , 2013, 36, 353-374.	1.2	34
83	Recent developments in neutron imaging with applications for porous media research. <i>Solid Earth</i> , 2016, 7, 1281-1292.	1.2	34
84	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. <i>ACS Nano</i> , 2020, 14, 14686-14697.	7.3	34
85	Spallation yields of neutrons produced in thick lead/bismuth targets by protons at incident energies of 420 and 590 MeV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 202-220.	0.6	32
86	Transient observation of 2H labeled species in an operating PEFC using neutron radiography. <i>Electrochemistry Communications</i> , 2008, 10, 1311-1314.	2.3	32
87	High-resolution neutron radiography with microchannel plates: Proof-of-principle experiments at PSI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 605, 103-106.	0.7	32
88	Dehydration of apple tissue: Intercomparison of neutron tomography with numerical modelling. <i>International Journal of Heat and Mass Transfer</i> , 2013, 67, 173-182.	2.5	32
89	CNR's new beamline for cold neutron imaging at the Swiss spallation neutron source SINQ. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 542, 264-270.	0.7	31
90	Detection systems for short-time stroboscopic neutron imaging and measurements on a rotating engine. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 542, 142-147.	0.7	31

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91	Neutron irradiation on MgB ₂ . Physica C: Superconductivity and Its Applications, 2007, 463-465, 211-215.	0.6	31
92	Dual Spectrum Neutron Radiography: Identification of Phase Transitions between Frozen and Liquid Water. Physical Review Letters, 2014, 112, 248301.	2.9	31
93	Determination of hydrogenous distributions by neutron transmission analysis. Physica B: Condensed Matter, 1997, 234-236, 1030-1032.	1.3	30
94	Quantification of the neutron dark-field imaging signal in grating interferometry. Physical Review B, 2013, 88, .	1.1	30
95	The cork viewed from the inside. Journal of Food Engineering, 2015, 149, 214-221.	2.7	30
96	Using neutron radiography to assess water absorption in air entrained mortar. Construction and Building Materials, 2016, 110, 98-105.	3.2	30
97	Measuring the effect of structural connectivity on the water dynamics in heterogeneous porous media using speedy neutron tomography. Advances in Water Resources, 2008, 31, 1233-1241.	1.7	29
98	Characterizing Local O ₂ Diffusive Losses in GDLs of PEFCs Using Simplified Flow Field Patterns (â€œ2Dâ€œ,â€œ1Dâ€œ,â€œ0Dâ€œ). Journal of the Electrochemical Society, 2013, 160, F659-F669.	1.3	29
99	Neutron Bragg-edge mapping of weld seams. International Journal of Materials Research, 2012, 103, 151-154.	0.1	29
100	Progress in Industrial Applications using Modern Neutron Imaging Techniques. Physics Procedia, 2013, 43, 231-242.	1.2	28
101	Impact of internal structure on water-resistance of plywood studied using neutron radiography and X-ray tomography. Construction and Building Materials, 2014, 73, 171-179.	3.2	28
102	Neutron radiography of irradiated fuel rod segments at the SINQ: loading, transfer and irradiation concept. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 215-220.	0.7	27
103	Non-destructive 10B analysis in neutron transmission experiments. Applied Radiation and Isotopes, 2004, 61, 517-523.	0.7	27
104	Design and optimization of a CCD-neutron radiography detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 454, 158-164.	0.7	26
105	Improving the image contrast and resolution in the phase-contrast neutron radiography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 100-105.	0.7	26
106	Quantification of hydrogen uptake of steam-oxidized zirconium alloys by means of neutron radiography. Journal of Physics Condensed Matter, 2008, 20, 104263.	0.7	26
107	Simultaneous neutron transmission and diffraction contrast tomography as a non-destructive 3D method for bulk single crystal quality investigations. Journal of Applied Physics, 2013, 114, .	1.1	26
108	Neutron Imaging Facilities in a Global Context. Journal of Imaging, 2017, 3, 52.	1.7	26

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109	The neutron micro-tomography setup at PSI and its use for research purposes and engineering applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 111-114.	0.7	25
110	New insights into alloy compositions: studying Renaissance bronze statuettes by combined neutron imaging and neutron diffraction techniques. Journal of Analytical Atomic Spectrometry, 2011, 26, 949.	1.6	25
111	Quantitative neutron imaging of water distribution, venation network and sap flow in leaves. Planta, 2014, 240, 423-436.	1.6	25
112	The study of bronze statuettes with the help of neutron-imaging techniques. Analytical and Bioanalytical Chemistry, 2009, 395, 1949-1959.	1.9	24
113	Quantitative determination of bound water diffusion in multilayer boards by means of neutron imaging. European Journal of Wood and Wood Products, 2010, 68, 341-350.	1.3	24
114	Energy selective neutron radiography in material research. Applied Physics A: Materials Science and Processing, 2010, 99, 515-522.	1.1	24
115	Visualizing the propagation of volume magnetization in bulk ferromagnetic materials by neutron grating interferometry (invited). Journal of Applied Physics, 2010, 107, 09D308.	1.1	24
116	Neutron imaging " Detector options in progress. Journal of Instrumentation, 2011, 6, C01050-C01050.	0.5	24
117	Spatial resolution of Medipix-2 device as neutron pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 546, 164-169.	0.7	23
118	Neutron radiography as visualization and quantification method for conservation measures of wood firmness enhancement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 87-94.	0.7	23
119	Mapping the 3D water dynamics in heterogeneous sands using thermal neutrons†. Chemical Engineering Journal, 2007, 130, 79-85.	6.6	23
120	Novel Application of Neutron Radiography to Forced Convective Drying of Fruit Tissue. Food and Bioprocess Technology, 2013, 6, 3353-3367.	2.6	23
121	On-the-fly Neutron Tomography of Water Transport into Lupine Roots. Physics Procedia, 2015, 69, 292-298.	1.2	23
122	Neutron capture autoradiography for a study on boron neutron capture therapy. Radiation Measurements, 2001, 34, 555-558.	0.7	22
123	Non-destructive testing with neutron phase contrast imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 95-99.	0.7	22
124	Imaging with cold neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 161-165.	0.7	22
125	Local Transients of Flooding and Current in Channel and Land Areas of a Polymer Electrolyte Fuel Cell. Journal of Physical Chemistry C, 2010, 114, 11998-12002.	1.5	21
126	High resolution neutron imaging for pulsed and constant load operation of passive self-breathing polymer electrolyte fuel cells. Electrochimica Acta, 2013, 87, 567-574.	2.6	21

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127	Energy-selective neutron imaging with high spatial resolution and its impact on the study of crystalline-structured materials. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 102-109.	0.7	21
128	Neutron Radiography Measurements of Moisture Distribution in Multilayer Clothing Systems. Textile Reseach Journal, 2004, 74, 695-700.	1.1	20
129	Dy-IP characterization and its application for experimental neutron radiography tests under realistic conditions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 320-323.	0.7	20
130	Status of SINQ, the only MW spallation neutron sourceâ€”highlighting target development and industrial applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 541-547.	0.7	20
131	Energy selective neutron imaging in solid state materials science. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 166-170.	0.7	20
132	Cold neutron tomography of annular coolant flow in a double subchannel model of a boiling water reactor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 297-304.	0.7	20
133	Towards a long-term monitoring of Central European water mite faunas (Acari: Hydrachnidia and) Tj ETQq1 1 0.784314 rgBT /Overloc 45-51.	0.7	19
134	Post-irradiation analysis of SINQ target rods by thermal neutron radiography. Journal of Nuclear Materials, 2006, 356, 162-167.	1.3	19
135	Recent improvements in the methodology of neutron imaging. Pramana - Journal of Physics, 2008, 71, 653-661.	0.9	19
136	Neutron attenuation coefficients for non-invasive quantification of wood properties. Holzforschung, 2009, 63, 472-478.	0.9	19
137	On-line monitoring of hygroscopicity and dimensional changes of wood during thermal modification by means of neutron imaging methods. Holzforschung, 2015, 69, 87-95.	0.9	19
138	Neutron imaging of froth structure and particle motion. Minerals Engineering, 2018, 119, 126-129.	1.8	19
139	Neutron signal transfer analysis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 424, 177-182.	0.7	18
140	Performance of a pixel detector suited for slow neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 542, 283-287.	0.7	18
141	Wood investigations by means of radiation transmission techniques. Journal of Cultural Heritage, 2012, 13, S35-S43.	1.5	18
142	Localized investigation of magnetic bulk property deterioration of electrical steel: Analysing magnetic property drop thorough mechanical and laser cutting of electrical steel laminations using neutron grating interferometry. , 2013, , .		18
143	Observing Chemical Reactions by Time-Resolved High-Resolution Neutron Imaging. Journal of Physical Chemistry C, 2018, 122, 23574-23581.	1.5	18
144	Light Yield Enhancement of 157-Gadolinium Oxysulfide Scintillator Screens for the High-Resolution Neutron Imaging. MethodsX, 2019, 6, 107-114.	0.7	18

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145	Monte Carlo simulation of neutron transmission of boron-alloyed steel. IEEE Transactions on Nuclear Science, 2005, 52, 394-399.	1.2	17
146	Anwendung der Methode der Neutronenradiographie zur Analyse von Holzeigenschaften. European Journal of Wood and Wood Products, 2001, 59, 463-471.	1.3	16
147	Neutron imaging and tomography with Medipix2 and dental micro-roentgenography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 205-209.	0.7	16
148	The method of neutron imaging as a tool for the study of the dynamics of water movement in wet aramid-based ballistic body armour panels. Measurement Science and Technology, 2006, 17, 1925-1934.	1.4	16
149	Comparative Study of Water Absorption Behavior in Biopol® and Jute-reinforced Biopol® Composite using Neutron Radiography Technique. Journal of Reinforced Plastics and Composites, 2006, 25, 1179-1187.	1.6	16
150	Liquid uptake in Scots pine sapwood and hardwood visualized and quantified by neutron radiography. Materials and Structures/Materiaux Et Constructions, 2014, 47, 1083-1096.	1.3	16
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