

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	Neutron Imaging of Cultural Heritage Objects. , 2022, , 211-237.		3
2	Initial development and testing of dysprosium-based scintillators for digital transfer method neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164669.	0.7	2
3	NEURAPâ€”A Dedicated Neutron-Imaging Facility for Highly Radioactive Samples. Journal of Imaging, 2021, 7, 57.	1.7	3
4	The XTRA Option at the NEUTRA Facilityâ€”More Than 10 Years of Bi-Modal Neutron and X-ray Imaging at PSI. Applied Sciences (Switzerland), 2021, 11, 3825.	1.3	9
5	Luminescent Lead Halide Ionic Liquids for High-Spatial-Resolution Fast Neutron Imaging. ACS Photonics, 2021, 8, 3357-3364.	3.2	2
6	Fast Neutron Imaging with Semiconductor Nanocrystal Scintillators. ACS Nano, 2020, 14, 14686-14697.	7.3	34
7	Multi-modal tomography to assess dechlorination treatments of iron-based archaeological artifacts. Heritage Science, 2019, 7, 29.	1.0	11
8	Light Yield Enhancement of 157-Gadolinium Oxysulfide Scintillator Screens for the High-Resolution Neutron Imaging. MethodsX, 2019, 6, 107-114.	0.7	18
9	Implementation and assessment of the black body bias correction in quantitative neutron imaging. PLoS ONE, 2019, 14, e0210300.	1.1	51
10	Saline Water Evaporation and Crystallization-Induced Deformations in Building Stone: Insights from High-Resolution Neutron Radiography. Transport in Porous Media, 2019, 128, 895-913.	1.2	14
11	Neutron imaging of froth structure and particle motion. Minerals Engineering, 2018, 119, 126-129.	1.8	19
12	Using neutron imaging data for deeper understanding of cultural heritage objects experiences from 15+â€”years of collaborations. Journal of Archaeological Science: Reports, 2018, 19, 397-404.	0.2	3
13	Imaging of root zone processes using MRI T 1 mapping. Microporous and Mesoporous Materials, 2018, 269, 43-46.	2.2	5
14	Observing Chemical Reactions by Time-Resolved High-Resolution Neutron Imaging. Journal of Physical Chemistry C, 2018, 122, 23574-23581.	1.5	18
15	Space-resolved study of binder burnout process in dry pressed ZnO ceramics by neutron imaging. Journal of the European Ceramic Society, 2018, 38, 5448-5453.	2.8	2
16	FISH: A thermal neutron imaging station at HOR Delft. Journal of Archaeological Science: Reports, 2018, 20, 369-373.	0.2	3
17	Neutron imaging as tool for investigations on historical musical instruments. Journal of Archaeological Science: Reports, 2018, 20, 239-243.	0.2	2
18	How the NEUWAVE workshop series has pushed neutron imaging developments. Neutron News, 2018, 29, 25-31.	0.1	1

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19	Design and Applications of a Climatic Chamber for in-situ Neutron Imaging Experiments. Physics Procedia, 2017, 88, 200-207.	1.2	10
20	A Method for Neutron Scattering Quantification and Correction Applied to Neutron Imaging. Physics Procedia, 2017, 88, 275-281.	1.2	8
21	Neutron Imaging Facilities in a Global Context. Journal of Imaging, 2017, 3, 52.	1.7	26
22	Recent developments in neutron imaging with applications for porous media research. Solid Earth, 2016, 7, 1281-1292.	1.2	34
23	The manufacturing process of the gold bust of Marcus Aurelius: evidence from neutron imaging. Journal of Roman Archaeology, 2016, 29, 477-493.	0.1	3
24	100 Hz neutron radiography at the BOA beamline using a parabolic focussing guide. MethodsX, 2016, 3, 535-541.	0.7	9
25	Rotation axis demultiplexer enabling simultaneous computed tomography of multiple samples. MethodsX, 2016, 3, 320-325.	0.7	5
26	Using neutron radiography to assess water absorption in air entrained mortar. Construction and Building Materials, 2016, 110, 98-105.	3.2	30
27	Detectors Requirements for the ODIN Beamline at ESS. Physics Procedia, 2015, 69, 152-160.	1.2	11
28	Improving the Spatial Resolution of Neutron Imaging at Paul Scherrer Institut "The Neutron Microscope Project. Physics Procedia, 2015, 69, 169-176.	1.2	80
29	On-the-fly Neutron Tomography of Water Transport into Lupine Roots. Physics Procedia, 2015, 69, 292-298.	1.2	23
30	Combining Neutron and Magnetic Resonance Imaging to Study the Interaction of Plant Roots and Soil. Physics Procedia, 2015, 69, 237-243.	1.2	15
31	Neutron imaging methods for the investigation of energy related materials. EPJ Web of Conferences, 2015, 104, 01007.	0.1	2
32	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. Cement and Concrete Research, 2015, 75, 1-13.	4.6	111
33	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
34	Quantification of Cement Hydration through Neutron Radiography with Scatter Rejection. IEEE Transactions on Nuclear Science, 2015, 62, 1288-1294.	1.2	8
35	Isotopically-enriched gadolinium-157 oxysulfide scintillator screens for the high-resolution neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 788, 67-70.	0.7	38
36	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. Construction and Building Materials, 2015, 76, 70-86.	3.2	40

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37	The cork viewed from the inside. <i>Journal of Food Engineering</i> , 2015, 149, 214-221.	2.7	30
38	Characterization of Two Japanese Ancient Swords through Neutron Imaging. <i>Hamon</i> , 2015, 25, 206-213.	0.0	5
39	Neutron optics requirements for neutron imaging techniques. <i>Journal of Physics: Conference Series</i> , 2014, 528, 012028.	0.3	1
40	Dual Spectrum Neutron Radiography: Identification of Phase Transitions between Frozen and Liquid Water. <i>Physical Review Letters</i> , 2014, 112, 248301.	2.9	31
41	A new transmission based monochromator for energy-selective neutron imaging at the ICON beamline. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 757, 28-32.	0.7	6
42	Observations on the Zirconium Hydride Precipitation and Distribution in Zircaloy-4. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 532-539.	1.0	14
43	Liquid uptake in Scots pine sapwood and hardwood visualized and quantified by neutron radiography. <i>Materials and Structures/Materiaux Et Constructions</i> , 2014, 47, 1083-1096.	1.3	16
44	Understanding forced convective drying of apple tissue: Combining neutron radiography and numerical modelling. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 24, 97-105.	2.7	7
45	Neutron imaging of moisture displacement due to steep temperature gradients in hardwood. <i>International Journal of Thermal Sciences</i> , 2014, 81, 1-12.	2.6	10
46	Energy-selective neutron imaging with high spatial resolution and its impact on the study of crystalline-structured materials. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 735, 102-109.	0.7	21
47	Moisture Migration in Wood Under Heating Measured by Thermal Neutron Radiography. <i>Experimental Heat Transfer</i> , 2014, 27, 160-179.	2.3	9
48	Impact of internal structure on water-resistance of plywood studied using neutron radiography and X-ray tomography. <i>Construction and Building Materials</i> , 2014, 73, 171-179.	3.2	28
49	Quantitative neutron imaging of water distribution, venation network and sap flow in leaves. <i>Planta</i> , 2014, 240, 423-436.	1.6	25
50	Internal curing with lightweight aggregate produced from biomass-derived waste. <i>Cement and Concrete Research</i> , 2014, 59, 24-33.	4.6	111
51	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
52	Materials research and non-destructive testing using neutron tomography methods. <i>International Journal of Materials Research</i> , 2014, 105, 664-670.	0.1	15
53	Novel Application of Neutron Radiography to Forced Convective Drying of Fruit Tissue. <i>Food and Bioprocess Technology</i> , 2013, 6, 3353-3367.	2.6	23
54	Non-invasive characterization through X-ray fluorescence and neutron radiography of an ancient Japanese lacquer. <i>Archaeological and Anthropological Sciences</i> , 2013, 5, 197-204.	0.7	11

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55	Revealing the secrets of composite helmets of ancient Japanese tradition. <i>European Physical Journal Plus</i> , 2013, 128, 1.	1.2	9
56	Progress in Industrial Applications using Modern Neutron Imaging Techniques. <i>Physics Procedia</i> , 2013, 43, 231-242.	1.2	28
57	Spectral Characterization of a Velocity Selector Type Monochromator for Energy-Selective Neutron Imaging. <i>Physics Procedia</i> , 2013, 43, 121-127.	1.2	8
58	Energy-selective neutron imaging for morphological and phase analysis of iron-nickel meteorites. <i>Analyst</i> , 2013, 138, 5303.	1.7	10
59	Neutron Radiography, Tomography, and Diffraction of Commercial Lithium-ion Polymer Batteries. <i>Physics Procedia</i> , 2013, 43, 331-336.	1.2	10
60	Verifying Neutron Tomography Performance using Test Objects. <i>Physics Procedia</i> , 2013, 43, 128-137.	1.2	12
61	Edge Enhancement in Cold Neutron Imaging: A Comparison of Experiments at Edges and Interfaces with Ray-tracing based on Refraction and Reflection. <i>Physics Procedia</i> , 2013, 43, 149-160.	1.2	5
62	High resolution neutron imaging for pulsed and constant load operation of passive self-breathing polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2013, 87, 567-574.	2.6	21
63	Visualizing moisture release and migration in gypsum plaster board during and beyond dehydration by neutron radiography. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 284-290.	2.5	11
64	Evaluation Procedures for Spatial Resolution and Contrast Standards for Neutron Tomography. <i>Physics Procedia</i> , 2013, 43, 138-148.	1.2	5
65	A Double Detector Set-up for Simultaneous Transmission and Diffraction Neutron Imaging. <i>Physics Procedia</i> , 2013, 43, 179-185.	1.2	3
66	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
67	Distinction of Liquid Water and Ice Based on Dual Spectrum Neutron Imaging. <i>ECS Transactions</i> , 2013, 58, 309-314.	0.3	3
68	Characterizing Local O_2 Diffusive Losses in GDLs of PEFCs Using Simplified Flow Field Patterns (ϵ). <i>Journal of the Electrochemical Society</i> , 2013, 160, F659-F669.	1.3	29
69	New insights into early bronze age damascene technique north of the alps. <i>Antiquaries Journal</i> , 2013, 93, 25-53.	0.1	8
70	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
71	Quantification of cement hydration through neutron radiography with scatter rejection. , 2013, , .		0
72	Forced Convective Drying of Wet Porous Asphalt Imaged with Neutron Radiography. <i>Advanced Engineering Materials</i> , 2013, 15, 1136-1145.	1.6	12

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73	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
74	Quantification of the neutron dark-field imaging signal in grating interferometry. Physical Review B, 2013, 88, .	1.1	30
75	Comment on "Demonstration of achromatic cold-neutron microscope utilizing axisymmetric focusing mirrors" [Appl. Phys. Lett. 102, 183508 (2013)]. Applied Physics Letters, 2013, 103, 236101.	1.5	3
76	ESS Lund hosted the NEUWAVE-5 Workshop. Neutron News, 2013, 24, 7-8.	0.1	0
77	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
78	Impact of Water on PEFC Performance Evaluated by Neutron Imaging Combined with Pulsed Helox Operation. Journal of the Electrochemical Society, 2012, 159, F210-F218.	1.3	38
79	Within-ring movement of free water in dehydrating Norway spruce sapwood visualized by neutron radiography. Holzforschung, 2012, 66, 751-756.	0.9	13
80	Refraction contrast imaging and edge effects in neutron radiography. Journal of Instrumentation, 2012, 7, C02047-C02047.	0.5	7
81	Quantification of the material composition of historical copper alloys by means of neutron transmission measurements. Journal of Analytical Atomic Spectrometry, 2012, 27, 1674.	1.6	12
82	Quantitative characterization of Japanese ancient swords through energy-resolved neutron imaging. Journal of Analytical Atomic Spectrometry, 2012, 27, 1494.	1.6	39
83	Neutron radiography with sub-15 μ m resolution through event centroiding. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 688, 32-40.	0.7	49
84	Visualization and quantification of liquid water transport in softwood by means of neutron radiography. International Journal of Heat and Mass Transfer, 2012, 55, 6211-6221.	2.5	87
85	Evaluation of decontamination methods of pesticide contaminated wooden objects in museum collections: Efficiency of the treatments and influence on the wooden structure. Journal of Cultural Heritage, 2012, 13, S209-S215.	1.5	14
86	Wood investigations by means of radiation transmission techniques. Journal of Cultural Heritage, 2012, 13, S35-S43.	1.5	18
87	Response of Populus tremula to heterogeneous B distributions in soil. Plant and Soil, 2012, 358, 403-415.	1.8	4
88	Application of X-Ray and Neutron Tomography to Study Antique Greek Bronze Coins with a High Lead Content. IOP Conference Series: Materials Science and Engineering, 2012, 37, 012011.	0.3	8
89	Simultaneous neutron imaging of six operating PEFCs: Experimental set-up and study of the MPL effect. Electrochemistry Communications, 2012, 20, 67-70.	2.3	56
90	Texture imaging of zirconium based components by total neutron cross-section experiments. Journal of Nuclear Materials, 2012, 425, 218-227.	1.3	57

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91	Investigation of phase transfer properties of light and heavy water by means of energy selective neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 670, 68-72.	0.7	10
92	Neutron Bragg-edge mapping of weld seams. International Journal of Materials Research, 2012, 103, 151-154.	0.1	29
93	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
94	Inspection of the metal composite materials using a combination of X-ray radiography and Neutron Imaging. Journal of Instrumentation, 2011, 6, C03001-C03001.	0.5	2
95	Boron Accumulation and Toxicity in Hybrid Poplar (<i>Populus nigra</i> — <i>euramericana</i>). Environmental Science & Technology, 2011, 45, 10538-10543.	4.6	39
96	High resolution neutron radiography with very compact and efficient neutron collimators. Journal of Instrumentation, 2011, 6, C01041-C01041.	0.5	6
97	Neutron Analysis for Microvoids in an Adhesive Layer between High X-ray Attenuation Materials. Applied Physics Express, 2011, 4, 066401.	1.1	0
98	Three-dimensional visualization and quantification of water content in the rhizosphere. New Phytologist, 2011, 192, 653-663.	3.5	140
99	High-resolution neutron microtomography with noiseless neutron counting detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 400-403.	0.7	42
100	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
101	In-situ neutron radiography investigations of hydrogen diffusion and absorption in zirconium alloys. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 253-257.	0.7	40
102	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
103	How to organize a neutron imaging user lab? 13 years of experience at PSI, CH. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 1-5.	0.7	13
104	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
105	Release of internal curing water from lightweight aggregates in cement paste investigated by neutron and X-ray tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 651, 244-249.	0.7	92
106	The ICON beamline – A facility for cold neutron imaging at SINQ. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 387-393.	0.7	224
107	Neutron radiography, a powerful method to determine time-dependent moisture distributions in concrete. Nuclear Engineering and Design, 2011, 241, 4758-4766.	0.8	90
108	Improved efficiency of high resolution thermal and cold neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 415-418.	0.7	65

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109	Using ² H labeling with neutron radiography for the study of solid polymer electrolyte water transport properties. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 234108.	0.7	7
110	Combined neutron and synchrotron X-ray microprobe analysis: attempt to disclose 3600 years-old secrets of a unique bronze age metal artifact. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1012.	1.6	9
111	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
112	Neutron Imaging of Isothermal Sub-Zero Degree Celsius Cold-Starts of a Polymer Electrolyte Fuel Cell (PEFC). <i>ECS Transactions</i> , 2011, 41, 363-370.	0.3	3
113	High-resolution proxies for wood density variations in <i>Terminalia superba</i> . <i>Annals of Botany</i> , 2011, 107, 293-302.	1.4	44
114	Application of Neutron Imaging in PEFC Research. <i>ECS Transactions</i> , 2011, 41, 27-38.	0.3	3
115	Neutron imaging "Detector options in progress. <i>Journal of Instrumentation</i> , 2011, 6, C01050-C01050.	0.5	24
116	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
117	Quantitative determination of bound water diffusion in multilayer boards by means of neutron imaging. <i>European Journal of Wood and Wood Products</i> , 2010, 68, 341-350.	1.3	24
118	Application areas of synchrotron radiation tomographic microscopy for wood research. <i>Wood Science and Technology</i> , 2010, 44, 67-84.	1.4	37
119	Energy selective neutron radiography in material research. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 515-522.	1.1	24
120	Neutron imaging at PSI: a promising tool in materials science and technology. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 627-634.	1.1	13
121	Visualization and quantification of water movement in porous cement-based materials by real time thermal neutron radiography: Theoretical analysis and experimental study. <i>Science China Technological Sciences</i> , 2010, 53, 1198-1207.	2.0	15
122	Dynamics of soil water content in the rhizosphere. <i>Plant and Soil</i> , 2010, 332, 163-176.	1.8	308
123	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
124	Neutron imaging of water penetration into cracked steel reinforced concrete. <i>Physica B: Condensed Matter</i> , 2010, 405, 1866-1871.	1.3	100
125	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
126	Neutron Imaging Methods for the Investigation of Energy Related Materials (Fuel Cells, Battery,)	0.1	1

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127	Neutron Imaging Resolution Improvements Optimized for Fuel Cell Applications. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, B25.	2.2	72
128	Visualizing the propagation of volume magnetization in bulk ferromagnetic materials by neutron grating interferometry (invited). <i>Journal of Applied Physics</i> , 2010, 107, 09D308.	1.1	24
129	Local Transients of Flooding and Current in Channel and Land Areas of a Polymer Electrolyte Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11998-12002.	1.5	21
130	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
131	Neutron attenuation coefficients for non-invasive quantification of wood properties. <i>Holzforschung</i> , 2009, 63, 472-478.	0.9	19
132	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
133	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
134	The neutron micro-tomography setup at PSI and its use for research purposes and engineering applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 605, 111-114.	0.7	25
135	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
136	The study of bronze statuettes with the help of neutron-imaging techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1949-1959.	1.9	24
137	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
138	Cold neutron imaging near Bragg edges as a tool for material research. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 605, 21-25.	0.7	3
139	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
140	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
141	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
142	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
143	Material Research with Neutron Imaging Methods at SINQ. <i>Neutron News</i> , 2009, 20, 20-23.	0.1	7
144	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

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145	Neutron Imaging Methods and Applications. Neutron Scattering Applications and Techniques, 2009, , 319-348.	0.2	5
146	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
147	Recent improvements in the methodology of neutron imaging. Pramana - Journal of Physics, 2008, 71, 653-661.	0.9	19
148	In situ observation of the water distribution across a PEFC using high resolution neutron radiography. Electrochemistry Communications, 2008, 10, 546-550.	2.3	208
149	Transient observation of 2H labeled species in an operating PEFC using neutron radiography. Electrochemistry Communications, 2008, 10, 1311-1314.	2.3	32
150	Imaging and image processing in porous media research. Advances in Water Resources, 2008, 31, 1174-1187.	1.7	183
151	High-speed neutron radiography for monitoring the water absorption by capillarity in porous materials. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 155-163.	0.6	80
152	Quantitative Imaging of Infiltration, Root Growth, and Root Water Uptake via Neutron Radiography. Vadose Zone Journal, 2008, 7, 1035-1047.	1.3	107
153	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
154	Analysis of Gas Diffusion Layer and Flow-Field Design in a PEMFC Using Neutron Radiography. Journal of the Electrochemical Society, 2008, 155, B223.	1.3	54
155	Hydraulic contacts controlling water flow across porous grains. Physical Review E, 2007, 76, 026311.	0.8	11
156	Highly absorbing gadolinium test device to characterize the performance of neutron imaging detector systems. Review of Scientific Instruments, 2007, 78, 053708.	0.6	98
157	Study of the water uptake and internal defects of jute-reinforced polymer composites with a digital neutron radiography technique. Journal of Applied Polymer Science, 2007, 105, 1958-1963.	1.3	4
158	Determination of the impregnation depth of siloxanes and ethylsilicates in porous material by neutron radiography. Journal of Cultural Heritage, 2007, 8, 331-338.	1.5	44
159	Mapping the 3D water dynamics in heterogeneous sands using thermal neutrons. Chemical Engineering Journal, 2007, 130, 79-85.	6.6	23
160	The micro-setup for neutron imaging: A major step forward to improve the spatial resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 576, 389-396.	0.7	151
161	Neutron irradiation on MgB2. Physica C: Superconductivity and Its Applications, 2007, 463-465, 211-215.	0.6	31
162	Visualization of root growth in heterogeneously contaminated soil using neutron radiography. European Journal of Soil Science, 2007, 58, 802-810.	1.8	74

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163	Water flow between soil aggregates. <i>Transport in Porous Media</i> , 2007, 68, 219-236.	1.2	39
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