

Genoveva Burca

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

446
citations

840776

11
h-index

752698

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35
all docs

35
docs citations

35
times ranked

395
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. <i>Journal of Imaging</i> , 2018, 4, 47.	3.0	50
2	Characterization of the new neutron imaging and materials science facility IMAT. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 888, 184-195.	1.6	47
3	IMAT – A New Imaging and Diffraction Instrument at ISIS. <i>Physics Procedia</i> , 2013, 43, 100-110.	1.2	39
4	Status of the Neutron Imaging and Diffraction Instrument IMAT. <i>Physics Procedia</i> , 2015, 69, 71-78.	1.2	36
5	Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS. <i>Journal of Instrumentation</i> , 2016, 11, C03014-C03014.	1.2	31
6	Core Imaging Library - Part I: a versatile Python framework for tomographic imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200192.	3.4	29
7	Modelling of an imaging beamline at the ISIS pulsed neutron source. <i>Journal of Instrumentation</i> , 2013, 8, P10001-P10001.	1.2	28
8	New insights into alloy compositions: studying Renaissance bronze statuettes by combined neutron imaging and neutron diffraction techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 949.	3.0	25
9	Wheat root system architecture and soil moisture distribution in an aggregated soil using neutron computed tomography. <i>Geoderma</i> , 2020, 359, 113988.	5.1	23
10	A new bridge technique for neutron tomography and diffraction measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 651, 229-235.	1.6	15
11	Design and Characterisation of Metallic Glassy Alloys of High Neutron Shielding Capability. <i>Scientific Reports</i> , 2016, 6, 36998.	3.3	15
12	On the origin of mosaicity in directionally solidified Ni-base superalloys. <i>Acta Materialia</i> , 2021, 217, 117180.	7.9	14
13	Exploring the potential of neutron imaging for life sciences on IMAT. <i>Journal of Microscopy</i> , 2018, 272, 242-247.	1.8	13
14	Crystalline phase discriminating neutron tomography using advanced reconstruction methods. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 325502.	2.8	10
15	Correlative tomography of an exceptionally preserved Jurassic ammonite implies hyponome-propelled swimming. <i>Geology</i> , 2022, 50, 397-401.	4.4	10
16	Characterization of a neutron sensitive MCP/Timepix detector for quantitative image analysis at a pulsed neutron source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 861, 55-63.	1.6	8
17	Characterization of $\hat{1}^3$ -ray background at IMAT beamline of ISIS Spallation Neutron Source. <i>Journal of Instrumentation</i> , 2017, 12, P08005-P08005.	1.2	8
18	2D single crystal Bragg-dip mapping by time-of-flight energy-resolved neutron imaging on IMAT@ISIS. <i>Scientific Reports</i> , 2020, 10, 20751.	3.3	8

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19	Developments towards Bragg edge imaging on the IMAT beamline at the ISIS Pulsed Neutron and Muon Source: BEM software. Journal of Physics Communications, 0, , .	1.2	7
20	Correlative X-ray and neutron tomography of root systems using cadmium fiducial markers. Journal of Microscopy, 2020, 277, 170-178.	1.8	6
21	Controlled Environment Neutron Radiography of Moisture Sorption/Desorption in Nanocellulose-Treated Cotton Painting Canvases. ACS Applied Polymer Materials, 2021, 3, 777-788.	4.4	6
22	Preferential wheat (<i>Triticum aestivum</i> . L cv. Fielder) root growth in different sized aggregates. Soil and Tillage Research, 2021, 212, 105054.	5.6	5
23	Modern and Historical Engineering Components Investigated by Neutron Diffraction on ENGIN-X. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 408-418.	0.5	4
24	A portable triaxial cell for beamline imaging of rocks under triaxial state of stress. Measurement Science and Technology, 2021, 32, 095403.	2.6	3
25	Potential of combined neutron and X-ray imaging to quantify local carbon contents in soil. European Journal of Soil Science, 0, , .	3.9	3
26	Neutron imaging data processing using the Mantid framework. Journal of Physics: Conference Series, 2016, 746, 012017.	0.4	1
27	Neutron diffraction and neutron imaging residual strain measurements on offshore wind monopole weldments. Procedia Structural Integrity, 2018, 13, 517-522.	0.8	1
28	Recovering the second moment of the strain distribution from neutron Bragg edge data. Applied Physics Letters, 2022, 120, 164102.	3.3	1
29	Data optimised computing for heterogeneous big data computing applications. , 2015, , .		0
30	In Situ Mechanical Loading and Neutron Bragg-edge Imaging, Applied to Polygranular Graphite On IMAT@ISIS. Experimental Mechanics, 2022, 62, 59-73.	2.0	0
31	OS04F125 Modern and Historical Engineering Concerns Investigated by Neutron Diffraction. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS04F125--_OS04F125-.	0.0	0
32	Evaluation of Wavelength-Dependent Detection Efficiency of Neutron-Sensitive Microchannel Plate Detector. Sensors and Materials, 2017, , 1447.	0.5	0