Ralph P Harti

List of Publications by Year
in descending order

21 papers	384 citations	687363 13 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	392 citing authors

#	Article	IF	Citations
1	Wavelength-dispersive dark-field contrast: micrometre structure resolution in neutron imaging with gratings. Journal of Applied Crystallography, 2016, 49, 569-573.	4.5	43
2	Resolution dependence of petrophysical parameters derived from X-ray tomography of chalk. Applied Physics Letters, 2014, 105, .	3.3	38
3	Sub-pixel correlation length neutron imaging: Spatially resolved scattering information of microstructures on a macroscopic scale. Scientific Reports, 2017, 7, 44588.	3.3	36
4	In-situ visualization of stress-dependent bulk magnetic domain formation by neutron grating interferometry. Applied Physics Letters, 2016, 108, .	3.3	28
5	Small Angle Scattering in Neutron Imagingâ€"A Review. Journal of Imaging, 2017, 3, 64.	3.0	27
6	Quantification of the sensitivity range in neutron dark-field imaging. Review of Scientific Instruments, 2015, 86, 123704.	1.3	24
7	Effect of tomography resolution on the calculated microscopic properties of porous materials: Comparison of sandstone and carbonate rocks. Applied Physics Letters, 2016, 109, 104102.	3.3	24
8	Magnetization Response of the Bulk and Supplementary Magnetic Domain Structure in High-Permeability Steel Laminations VisualizedInÂSituby Neutron Dark-Field Imaging. Physical Review Applied, 2016, 6, .	3.8	20
9	Domain formation in the type-II/1 superconductor niobium: Interplay of pinning, geometry, and attractive vortex-vortex interaction. Physical Review B, 2017, 96, .	3.2	20
10	Selective Visualization of Water in Fuel Cell Gas Diffusion Layers with Neutron Dark-Field Imaging. Journal of the Electrochemical Society, 2019, 166, F149-F157.	2.9	19
11	Dynamic volume magnetic domain wall imaging in grain oriented electrical steel at power frequencies with accumulative high-frame rate neutron dark-field imaging. Scientific Reports, 2018, 8, 15754.	3.3	18
12	Visualizing the heterogeneous breakdown of a fractal microstructure during compaction by neutron dark-field imaging. Scientific Reports, 2018, 8, 17845.	3.3	17
13	Frequency-Induced Bulk Magnetic Domain-Wall Freezing Visualized by Neutron Dark-Field Imaging. Physical Review Applied, 2016, 6, .	3.8	13
14	Visualization and quantification of inhomogeneous and anisotropic magnetic fields by polarized neutron grating interferometry. Nature Communications, 2019, 10, 3788.	12.8	13
15	Visibility simulation of realistic grating interferometers including grating geometries and energy spectra. Optics Express, 2017, 25, 1019.	3.4	12
16	Achromatic Non-Interferometric Single Grating Neutron Dark-Field Imaging. Scientific Reports, 2019, 9, 19649.	3.3	11
17	Statistical uncertainty in the dark-field and transmission signal of grating interferometry. Review of Scientific Instruments, 2017, 88, 103704.	1.3	6
18	3D sub-pixel correlation length imaging. Scientific Reports, 2020, 10, 1002.	3.3	5

#	Article	IF	Citations
19	Visualization of compensating currents in type-II/1 superconductor via high field cooling. Applied Physics Letters, 2020, 116, 192602.	3.3	4
20	Operando Visualization of Water Distribution in Gas Diffusion Media of PEFCs with an Optimized Neutron Grating Interferometer. Journal of the Electrochemical Society, 2020, 167, 064509.	2.9	4
21	3D FIB SEM imaging of oil filled chalk: What are the challenges?. Microscopy and Microanalysis, 2015, 21, 631-632.	0.4	2