

Qingxi Yuan

List of Publications by Year in descending order

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70
papers

1,393
citations

471509

17
h-index

361022

35
g-index

70
all docs

70
docs citations

70
times ranked

1884
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Synchrotron Radiation-Analytical Techniques To Reveal Chemical Origin of Silver-Nanoparticle Cytotoxicity. ACS Nano, 2015, 9, 6532-6547.	14.6	246
2	Quantification of Heterogeneous Degradation in Li-Ion Batteries. Advanced Energy Materials, 2019, 9, 1900674.	19.5	176
3	Automated markerless full field hard x-ray microscopic tomography at sub-50-nm 3-dimension spatial resolution. Applied Physics Letters, 2012, 100, .	3.3	101
4	A 30-nm-resolution hard X-ray microscope with X-ray fluorescence mapping capability at BSRF. Journal of Synchrotron Radiation, 2012, 19, 1021-1028.	2.4	81
5	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. Nature Communications, 2018, 9, 2810.	12.8	59
6	Study on diffusion behavior and microstructural evolution of Al/Cu bimetal interface by synchrotron X-ray radiography. Journal of Alloys and Compounds, 2014, 616, 550-555.	5.5	57
7	Visualizing the Toughening Mechanism of Nanofiller with 3D X-ray Nano-CT: Stress-Induced Phase Separation of Silica Nanofiller and Silicone Polymer Double Networks. Macromolecules, 2017, 50, 7249-7257.	4.8	48
8	Evaluation of x-ray diffraction enhanced imaging in the diagnosis of breast cancer. Physics in Medicine and Biology, 2007, 52, 419-427.	3.0	45
9	A novel material of nanoporous magnesium for hydrogen generation with salt water. Journal of Power Sources, 2018, 395, 8-15.	7.8	44
10	Understanding the Mesoscale Degradation in Nickel-Rich Cathode Materials through Machine-Learning-Revealed Strain-Redox Decoupling. ACS Energy Letters, 2021, 6, 687-693.	17.4	42
11	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. Nature Communications, 2020, 11, 6342.	12.8	34
12	Diffraction enhanced imaging: a simple model. Journal Physics D: Applied Physics, 2006, 39, 4142-4147.	2.8	31
13	Growth behavior of Cu ₆ Sn ₅ in Sn-6.5 Cu solders under DC considering trace Al: In situ observation. Intermetallics, 2015, 58, 84-90.	3.9	30
14	A novel design of 3D carbon host for stable lithium metal anode. , 2022, 4, 654-664.		29
15	Analysis of polychromaticity effects in X-ray Talbot interferometer. Analytical and Bioanalytical Chemistry, 2010, 397, 2137-2141.	3.7	26
16	Quantitative coherence analysis with an X-ray Talbot-Lau interferometer. Analytical and Bioanalytical Chemistry, 2010, 397, 2091-2094.	3.7	21
17	Reconstruction of the refractive index gradient by x-ray diffraction enhanced computed tomography. Physics in Medicine and Biology, 2006, 51, 3391-3396.	3.0	20
18	Focusing synchrotron radiation using a polycapillary half-focusing X-ray lens for imaging. Journal of Synchrotron Radiation, 2009, 16, 116-118.	2.4	18

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19	3D visualization of the microstructure of <i>Quedius beelsoni</i> Cameron using micro-CT. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2143-2148.	3.7	17
20	Angular signal radiography. <i>Optics Express</i> , 2016, 24, 5829.	3.4	17
21	A new method to extract angle of refraction in diffraction enhanced imaging computed tomography. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6917-6921.	2.8	16
22	Grain nucleation and growth behavior of a Sn-Pb alloy affected by direct current: An in situ investigation. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1134-1140.	10.7	14
23	Evolution of local densities during shear banding in Zr-based metallic glass micropillars. <i>Acta Materialia</i> , 2022, 235, 118068.	7.9	14
24	A micro-tomography method based on X-ray diffraction enhanced imaging for the visualization of micro-organs and soft tissues. <i>Computerized Medical Imaging and Graphics</i> , 2006, 30, 339-347.	5.8	13
25	X-ray phase radiography and tomography with grating interferometry and the reverse projection technique. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 494003.	2.8	11
26	Automatic 3D image registration for nano-resolution chemical mapping using synchrotron spectro-tomography. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 278-282.	2.4	11
27	Earliest use of birch bark tar in Northwest China: evidence from organic residues in prehistoric pottery at the Changning site. <i>Vegetation History and Archaeobotany</i> , 2019, 28, 199-207.	2.1	10
28	Study of OSEM with different subsets in grating-based X-ray differential phase-contrast imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 837-844.	3.7	9
29	A Preliminary Study on Sinus Fungus Ball with MicroCT and X-Ray Fluorescence Technique. <i>PLoS ONE</i> , 2016, 11, e0148515.	2.5	9
30	Deep-learning-based image registration for nano-resolution tomographic reconstruction. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1909-1915.	2.4	9
31	Deep Learning Enabled Crack Detection and Analysis in Commercial Lithium-Ion Battery Cathodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	9
32	Phase retrieval from a single near-field diffraction pattern with a large Fresnel number. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 2651.	1.5	7
33	Analysis of partial coherence in grating-based phase-contrast X-ray imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 619, 319-322.	1.6	7
34	Sub-500-nm hard x ray focusing by compound long kinoform lenses. <i>Applied Optics</i> , 2016, 55, 38.	2.1	7
35	Absorption, refraction and scattering retrieval in X-ray analyzer-based imaging. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1206-1213.	2.4	7
36	Progress of diffraction enhanced imaging at the Beijing Synchrotron Radiation Facility. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2067-2078.	3.7	6

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37	A novel crystal-analyzer phase retrieval algorithm and its noise property. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 786-795.	2.4	6
38	Effect of the melt superheat on equiaxed solidification of Al-20 wt% Cu alloy investigated by in situ synchrotron radiography. <i>Journal of Crystal Growth</i> , 2017, 476, 38-44.	1.5	6
39	A novel nanoporous Mg-Li material for efficient hydrogen generation. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 3054-3063.	11.9	6
40	A new diffraction enhanced imaging set-up for larger samples at BSRF. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1990-1994.	2.8	5
41	Investigation of misalignment in analyzer crystal based-CT and its effect. <i>Physics in Medicine and Biology</i> , 2008, 53, 5757-5766.	3.0	5
42	Grating-based X-ray phase contrast imaging using polychromatic laboratory sources. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 342-345.	1.7	5
43	Nondestructive estimation of growth year in ginseng cultivars using the means of mathematical modeling on the basis of allometry. <i>Microscopy Research and Technique</i> , 2016, 79, 98-105.	2.2	5
44	Bulk Microstructure of Modern Composites Studied Jointly by Impulse Acoustic Microscopy and X-ray Microtomography Techniques. <i>Polymer Engineering and Science</i> , 2019, 59, 2508-2513.	3.1	5
45	Design and construction of an X-ray phase contrast CT system at BSRF. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1986-1989.	2.8	4
46	Investigation of biological microstructures by using diffraction-enhanced imaging computed tomography. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1835-1840.	2.8	4
47	Investigation of biomedical inner microstructures with hard X-ray phase-contrast imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 610-613.	1.6	4
48	Synchrotron radiation topography study of temperature-induced phase transformation in unpoled 0.92Pb (Zn1 / 3Nb2 / 3)O3-0.08PbTiO3 crystals. <i>Solid State Communications</i> , 2008, 148, 109-112.	1.9	4
49	3D Residual Strain in DKDP Crystals by Neutron Diffraction. <i>Crystal Research and Technology</i> , 2019, 54, 1900022.	1.3	4
50	Study of growth defects in benzophenone crystals. <i>Journal of Crystal Growth</i> , 2005, 274, 518-521.	1.5	3
51	Theoretical study of the influence of small angle scattering on diffraction enhanced imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 533-538.	2.9	3
52	Basal plane bending of 6H-SiC single crystals observed by synchrotron radiation X-ray topography. <i>Journal of Applied Crystallography</i> , 2009, 42, 1068-1072.	4.5	3
53	Comparison of X-Ray and Proton Irradiation Effects on the Characteristics of InGaN/GaN Multiple Quantum Wells Light-Emitting Diodes. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1345-1350.	2.0	3
54	Feature detection network-based correction method for accurate nano-tomography reconstruction. <i>Applied Optics</i> , 2022, 61, 5695.	1.8	3

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55	DEIReconstructor: a software for diffraction enhanced imaging processing and tomography reconstruction. Chinese Physics C, 2014, 38, 106202.	3.7	2
56	Multi-contrast diffraction enhanced computed laminography at Beijing Synchrotron Radiation Facility. Analytical and Bioanalytical Chemistry, 2018, 410, 7221-7228.	3.7	2
57	Conceptual design of TXM beamline at high energy photon source. AIP Conference Proceedings, 2019, , .	0.4	2
58	In-situ studies and simulation of equiaxed solidification in Al-20Cu alloy. Materials Science and Technology, 2021, 37, 59-65.	1.6	2
59	Quantitative comparison between two geometrical layouts for diffraction enhanced imaging. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 654-662.	2.9	1
60	Research on the multi-crystalline structure in sapphire grown by Kyropoulos technique. Crystal Research and Technology, 2014, 49, 507-513.	1.3	1
61	Synchrotron radiation (SR) diffraction enhanced imaging (DEI) of chronic glomerulonephritis (CGN) mode. Journal of X-Ray Science and Technology, 2016, 24, 145-159.	1.0	1
62	High pressure X-ray nano-tomography and fractal microstructures in the Ce $f_{3/2}$ transition. Journal of Applied Physics, 2019, 125, 135902.	2.5	1
63	Zone plate-based full-field transmission X-ray microscopy beamline design at nearly diffraction-limited synchrotron radiation facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 993, 165089.	1.6	1
64	Accurate reconstruction algorithm for bilateral differential phase signals. Radiation Detection Technology and Methods, 2021, 5, 474-479.	0.8	1
65	Experimental and theoretical investigations of diffraction enhanced imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 803-807.	1.6	0
66	Bulk microstructure of modern composites studied jointly by impulse acoustic microscopy and x-ray microtomography techniques. AIP Conference Proceedings, 2018, , .	0.4	0
67	Preliminary Study on High-sensitive Diffraction Enhanced Imaging at BSRF. Microscopy and Microanalysis, 2018, 24, 102-103.	0.4	0
68	Advanced Transmission X-ray Microscopy for Energy Materials and Devices. , 2021, , 45-64.		0
69	Analytic signal extraction approach based on 2D Grating Interferometer and systematic comparison between 2D GI and 1D case. Journal of Instrumentation, 2016, 11, C03031-C03031.	1.2	0
70	Characterization of Kinoform X-Ray Lens Using Image Stitching Method Based on Marked Structures. Communications in Computer and Information Science, 2018, , 88-97.	0.5	0