Akihisa Takeuchi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1289977/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Three-Dimensional Structure of Hayabusa Samples: Origin and Evolution of Itokawa Regolith. Science, 2011, 333, 1125-1128.	12.6	249
2	Performance Test of Fresnel Zone Plate with 50 nm Outermost Zone Width in Hard X-ray Region. Japanese Journal of Applied Physics, 2005, 44, 1994-1998.	1.5	98
3	The True Origin of Ductile Fracture in Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 765-776.	2.2	91
4	Dendrite fragmentation induced by massive-like Î′–γ transformation in Fe–C alloys. Nature Communications, 2019, 10, 3183.	12.8	65
5	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. AlP Conference Proceedings, 2004, , .	0.4	64
6	Assessment of hydrogen embrittlement via image-based techniques in Al–Zn–Mg–Cu aluminum alloys. Acta Materialia, 2019, 176, 96-108.	7.9	63
7	Submicrometer-resolution three-dimensional imaging with hard x-ray imaging microtomography. Review of Scientific Instruments, 2002, 73, 4246-4249.	1.3	50
8	Differential Phase X-ray Imaging Microscopy with X-ray Talbot Interferometer. Applied Physics Express, 0, 1, 117002.	2.4	50
9	A method for estimating spatial resolution of real image in the Fourier domain. Journal of Microscopy, 2016, 261, 57-66.	1.8	45
10	Influences of hydrogen on deformation and fracture behaviors of high Zn 7XXX aluminum alloys. International Journal of Fracture, 2016, 200, 13-29.	2.2	37
11	Sub-100 nm Hard X-Ray Microbeam Generation with Fresnel Zone Plate Optics. Japanese Journal of Applied Physics, 2003, 42, L132-L134.	1.5	35
12	Development of micro-tomography system with Fresnel zone plate optics at SPring-8. , 2006, , .		35
13	Zernike phase-contrast x-ray microscope with pseudo-Kohler illumination generated by sectored (polygon) condenser plate. Journal of Physics: Conference Series, 2009, 186, 012020.	0.4	35
14	Microtomographic Analysis of Neuronal Circuits of Human Brain. Cerebral Cortex, 2010, 20, 1739-1748.	2.9	35
15	Discovery of fossil asteroidal ice in primitive meteorite Acfer 094. Science Advances, 2019, 5, eaax5078.	10.3	33
16	Development of an X-ray imaging detector to resolve 200  nm line-and-space patterns by using transparent ceramics layers bonded by solid-state diffusion. Optics Letters, 2019, 44, 1403.	3.3	31
17	Three-dimensional network of Drosophila brain hemisphere. Journal of Structural Biology, 2013, 184, 271-279.	2.8	30
18	Microstructural evolution of electrodes in sintering of multi-layer ceramic capacitors (MLCC) observed by synchrotron X-ray nano-CT. Acta Materialia, 2021, 206, 116605.	7.9	30

Ακιμιςα Τακευςμι

#	Article	IF	CITATIONS
19	Three-dimensional alteration of neurites in schizophrenia. Translational Psychiatry, 2019, 9, 85.	4.8	28
20	High-energy x-ray microbeam with total-reflection mirror optics. Review of Scientific Instruments, 2007, 78, 053713.	1.3	27
21	Confocal full-field X-ray microscope for novel three-dimensional X-ray imaging. Journal of Synchrotron Radiation, 2009, 16, 616-621.	2.4	27
22	3D multiscale-imaging of processing-induced defects formed during sintering of hierarchical powder packings. Scientific Reports, 2019, 9, 11595.	3.3	27
23	Nondestructive Multiscale X-Ray Tomography by Combining Microtomography and High-Energy Phase-Contrast Nanotomography. Microscopy and Microanalysis, 2018, 24, 108-109.	0.4	26
24	High-energy x-ray nanotomography introducing an apodization Fresnel zone plate objective lens. Review of Scientific Instruments, 2021, 92, 023701.	1.3	25
25	Hydrogen partitioning behavior and related hydrogen embrittlement in Al-Zn-Mg alloys. Engineering Fracture Mechanics, 2019, 216, 106503.	4.3	23
26	Morphology of subsurface cracks in glass-ceramics induced by Vickers indentation observed by synchrotron X-ray multiscale tomography. Scientific Reports, 2022, 12, 6994.	3.3	23
27	Kirkpatrick-Baez type x-ray focusing mirror fabricated by the bent-polishing method. Review of Scientific Instruments, 2005, 76, 093708.	1.3	22
28	Three-dimensional microtomographic imaging of human brain cortex. Brain Research, 2008, 1199, 53-61.	2.2	22
29	Recent progress in synchrotron radiation 3D–4D nano-imaging based on X-ray full-field microscopy. Microscopy (Oxford, England), 2020, 69, 259-279.	1.5	19
30	Full-field x-ray fluorescence imaging microscope with a Wolter mirror. Review of Scientific Instruments, 2000, 71, 1279-1285.	1.3	17
31	Hard x-ray holographic microscopy using refractive prism and Fresnel zone plate objective. Review of Scientific Instruments, 2005, 76, 093702.	1.3	17
32	Discovery of primitive CO ₂ -bearing fluid in an aqueously altered carbonaceous chondrite. Science Advances, 2021, 7, .	10.3	16
33	Brain capillary structures of schizophrenia cases and controls show a correlation with their neuron structures. Scientific Reports, 2021, 11, 11768.	3.3	15
34	Three-dimensional phase-contrast X-ray microtomographyÂwith scanning–imaging X-rayÂmicroscope optics. Journal of Synchrotron Radiation, 2013, 20, 793-800.	2.4	14
35	Fresnel zone plate with apodized aperture for hard X-ray Gaussian beam optics. Journal of Synchrotron Radiation, 2017, 24, 586-594.	2.4	14
36	Evaluation of the improved three-dimensional resolution of a synchrotron radiation computed tomograph using a micro-fabricated test pattern. Journal of Synchrotron Radiation, 2008, 15, 648-654.	2.4	13

Ακιμιςα Τακευςμι

#	Article	IF	CITATIONS
37	Observation of Morphology Changes of Fine Eutectic Si Phase in Al-10%Si Cast Alloy during Heat Treatment by Synchrotron Radiation Nanotomography. Materials, 2018, 11, 1308.	2.9	12
38	Hard X-Ray Microtomography Using X-Ray Imaging Optics. Japanese Journal of Applied Physics, 2001, 40, 1499-1503.	1.5	11
39	Recent progress of hard x-ray imaging microscopy and microtomography at BL37XU of SPring-8. AIP Conference Proceedings, 2016, , .	0.4	10
40	Initiation and propagation of small fatigue crack in beta titanium alloy observed through synchrotron radiation multiscale computed tomography. Engineering Fracture Mechanics, 2022, 263, 108308.	4.3	10
41	Three-dimensional X-ray fluorescence imaging with confocal full-field X-ray microscope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 616, 261-265.	1.6	9
42	Hard X-ray Imaging Microscopy using X-ray Guide Tube as Beam Condenser for Field Illumination. Journal of Physics: Conference Series, 2013, 463, 012028.	0.4	9
43	Probing Surface Morphology using X-ray Grating Interferometry. Scientific Reports, 2019, 9, 14120.	3.3	8
44	Detection of small internal fatigue cracks in Tiâ€6Alâ€4V via synchrotron radiation nanocomputed tomography. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 2693-2702.	3.4	8
45	An experimental system for time-resolved x-ray diffraction of deforming silicate melt at high temperature. Review of Scientific Instruments, 2020, 91, 095113.	1.3	7
46	Direct observations of nucleant TiB2 particles in cast aluminum by synchrotron radiation multiscale tomography. Materialia, 2020, 10, 100663.	2.7	7
47	At wavelength focusing properties evaluation of the Wolter type grazing incidence mirror. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 302-304.	1.6	6
48	Hard X-ray Holographic Microscopy using Refractive Prism and Fresnel Zone Plate Objective. AIP Conference Proceedings, 2007, , .	0.4	6
49	X-ray Holographic Microscopy by Double-Prism Interferometer. Japanese Journal of Applied Physics, 2010, 49, 016601.	1.5	6
50	The Role of Hydrogen on the Local Fracture Toughness Properties of 7XXX Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5368-5381.	2.2	6
51	Structural diverseness of neurons between brain areas and between cases. Translational Psychiatry, 2021, 11, 49.	4.8	6
52	Differential Phase-Contrast Scanning X-Ray Microscope For Observation Of Low-Z element Specimen. AIP Conference Proceedings, 2010, , .	0.4	5
53	<title>X-ray imaging microscope with a partial coherent illumination</title> ., 2001, , .		5
54	Current Status of Microtomography with Synchrotron Radiation X-ray Source. Journal of the Vacuum Society of Japan, 2011, 54, 47-55.	0.3	5

Ακιμινά Τακευсμι

#	Article	IF	CITATIONS
55	Three-dimensional microstructure and mineralogy of a cosmic symplectite in the Acfer 094 carbonaceous chondrite: Implication for its origin. Geochimica Et Cosmochimica Acta, 2022, 323, 220-241.	3.9	5
56	Differential phase contrast x-ray microimaging with scanning-imaging x-ray microscope optics. Review of Scientific Instruments, 2012, 83, 083701.	1.3	4
57	X-ray Microfocusing by Combination of Grazing-Incidence Spherical-Concave Mirrors. Japanese Journal of Applied Physics, 2010, 49, 106701.	1.5	3
58	Nanoscale pore measurements in an all-solid-state lithium-ion battery with ultra-small-angle X-ray scattering (USAXS). Journal of Power Sources Advances, 2021, 12, 100076.	5.1	3
59	Multimodal assessment of mechanically induced transformation in metastable multiâ€phase steel using Xâ€ray nanoâ€tomography and pencilâ€beam diffraction tomography. Acta Materialia, 2022, 234, 117956.	7.9	3
60	Development of Scanning-Imaging X-Ray Microscope for Quantitative Three-Dimensional Phase Contrast Microimaging. Journal of Physics: Conference Series, 2013, 463, 012034.	0.4	1
61	Bilaterally Asymmetric Helical Myofibrils in Ascidian Tadpole Larvae. Frontiers in Cell and Developmental Biology, 2021, 9, 800455.	3.7	1
62	Imaging properties and its improvements of scanning/imaging x-ray microscope. AIP Conference Proceedings, 2016, , .	0.4	0
63	Evaluation of Macroscopic Mechanical Properties from 3-D Visualization of Microstructure in Sintering. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2019, 66, 604-610.	0.2	0
64	3-D Observation with Synchrotron Radiation X-ray CT. Materia Japan, 2022, 61, 65-71.	0.1	0