

Akio Yoneyama

List of Publications by Year in descending order

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51
papers

1,230
citations

430874

18
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377865

34
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all docs

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docs citations

51
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleation sites of expanded stacking faults detected by <i>in operando</i> x-ray topography analysis to design epitaxial layers for bipolar-degradation-free SiC MOSFETs. AIP Advances, 2022, 12, .	1.3	5
2	Observation of processed rice using synchrotron radiation X-ray phase-contrast imaging. Journal of Texture Studies, 2022, 53, 366-373.	2.5	1
3	Bronchial tree of the human embryo: Categorization of the branching mode as monopodial and dipodial. PLoS ONE, 2021, 16, e0245558.	2.5	6
4	Quantitative analysis of the physical properties of CsI, GAGG, LuAG, CWO, YAG, BGO, and GOS scintillators using 10-, 20- and 34-keV monochromated synchrotron radiation. Optical Materials Express, 2021, 11, 398.	3.0	23
5	<i>In-operando</i> x-ray topography analysis of SiC metal-oxide-semiconductor field-effect transistors to visualize stacking fault expansion motions dynamically during operations. Journal of Applied Physics, 2021, 130, .	2.5	9
6	Advanced X-ray imaging at beamline 07 of the SAGA Light Source. Journal of Synchrotron Radiation, 2021, 28, 1966-1977.	2.4	11
7	Feasibility study of interferometric phase-contrast X-ray imaging using the hard-X-ray free-electron laser of the SPring-8 Angstrom Compact Free-Electron Laser. Journal of Synchrotron Radiation, 2020, 27, 1358-1361.	2.4	3
8	<i>In operando</i> visualization of electrolyte stratification dynamics in lead-acid battery using phase-contrast X-ray imaging. Chemical Communications, 2020, 56, 9553-9556.	4.1	10
9	Shoulder girdle formation and positioning during embryonic and early fetal human development. PLoS ONE, 2020, 15, e0238225.	2.5	6
10	X-Ray attenuation and image contrast in the X-ray computed tomography of clathrate hydrates depending on guest species. Physical Chemistry Chemical Physics, 2020, 22, 27658-27665.	2.8	7
11	X-ray elastography by visualizing propagating shear waves. Applied Physics Express, 2020, 13, 042004.	2.4	6
12	X-ray CT observation and characterization of water transformation in heavy objects. Physical Chemistry Chemical Physics, 2020, 22, 3446-3454.	2.8	9
13	The bronchial tree of the human embryo: an analysis of variations in the bronchial segments. Journal of Anatomy, 2020, 237, 311-322.	1.5	12
14	Fast diffraction-enhanced imaging using continuous sample rotation and analyzer crystal scanning. Journal of Synchrotron Radiation, 2020, 27, 468-471.	2.4	4
15	Human embryonic ribs all progress through common morphological forms irrespective of their position on the axis. Developmental Dynamics, 2019, 248, 1257-1263.	1.8	3
16	Morphogenesis of the femur at different stages of normal human development. PLoS ONE, 2019, 14, e0221569.	2.5	15
17	Novel Zeff imaging method for deep internal areas using back-scattered X-rays. Scientific Reports, 2019, 9, 18831.	3.3	3
18	Quantitative Visualization of Salt Concentration Distributions in Lithium-Ion Battery Electrolytes during Battery Operation Using X-ray Phase Imaging. Journal of the American Chemical Society, 2018, 140, 1608-1611.	13.7	46

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19	Feasibility study of phase-contrast X-ray laminography using X-ray interferometry. Journal of Synchrotron Radiation, 2018, 25, 1841-1846.	2.4	1
20	Superheating Clathrate Hydrates for Anomalous Preservation. Journal of Physical Chemistry C, 2018, 122, 17019-17023.	3.1	13
21	Cartilage formation in the pelvic skeleton during the embryonic and early-fetal period. PLoS ONE, 2017, 12, e0173852.	2.5	9
22	Three-dimensional imaging of palatal muscles in the human embryo and fetus: Development of levator veli palatini and clinical importance of the lesser palatine nerve. Developmental Dynamics, 2016, 245, 123-131.	1.8	11
23	CO ₂ processing and hydration of fruit and vegetable tissues by clathrate hydrate formation. Food Chemistry, 2016, 205, 122-128.	8.2	18
24	Dissociation behaviors of methane hydrate formed from NaCl solutions. Fluid Phase Equilibria, 2016, 413, 22-27.	2.5	39
25	Observation of the growth process of icy materials in interparticle spaces: phase-contrast X-ray imaging of clathrate hydrate. Canadian Journal of Chemistry, 2015, 93, 983-987.	1.1	6
26	Effect of Long-Term Storage and Thermal History on the Gas Content of Natural Gas Hydrate Pellets under Ambient Pressure. Energy & Fuels, 2015, 29, 4827-4834.	5.1	107
27	Natural gas storage and transportation within gas hydrate of smaller particle: Size dependence of self-preservation phenomenon of natural gas hydrate. Chemical Engineering Science, 2014, 118, 208-213.	3.8	136
28	Enhanced renal image contrast by ethanol fixation in phase-contrast X-ray computed tomography. Journal of Synchrotron Radiation, 2014, 21, 795-800.	2.4	18
29	Feasibility test of <i>Zeff</i> imaging using x-ray interferometry. Applied Physics Letters, 2013, 103, .	3.3	11
30	Phase-contrast X-ray imaging system with sub-mg/cm ³ density resolution. Journal of Physics: Conference Series, 2013, 425, 192007.	0.4	13
31	Improving image quality of synchrotron CT by scattered X-ray correction. Journal of Physics: Conference Series, 2013, 425, 192010.	0.4	2
32	Development of diffraction enhanced imaging at beamline BL07 at the SAGA Light Source and its application. Journal of Physics: Conference Series, 2013, 425, 192013.	0.4	3
33	Diffraction-enhanced X-ray imaging under low-temperature conditions: non-destructive observations of clathrate gas hydrates. Journal of Synchrotron Radiation, 2012, 19, 1038-1042.	2.4	25
34	Anomalous Preserved Clathrate Hydrate of Natural Gas in Pellet Form at 253 K. Journal of Physical Chemistry C, 2012, 116, 13842-13848.	3.1	78
35	In vivophysiological saline-infused hepatic vessel imaging using a two-crystal-interferometer-based phase-contrast X-ray technique. Journal of Synchrotron Radiation, 2012, 19, 252-256.	2.4	28
36	Nondestructive Imaging of Anomalous Preserved Methane Clathrate Hydrate by Phase Contrast X-ray Imaging. Journal of Physical Chemistry C, 2011, 115, 16193-16199.	3.1	82

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37	Phase-contrast X-ray imaging of the gas diffusion layer of fuel cells. Journal of Synchrotron Radiation, 2010, 17, 813-816.	2.4	8
38	Fast X-ray Digital Imager for High-Speed Phase-Contrast X-ray Imaging. Japanese Journal of Applied Physics, 2007, 46, 1205-1207.	1.5	9
39	Interferometer-based Phase-contrast X-ray Computed Tomography of Colon Cancer Specimens. Journal of Computer Assisted Tomography, 2007, 31, 214-217.	0.9	13
40	Quantitative analysis of amyloid plaques in a mouse model of Alzheimer's disease by phase-contrast X-ray computed tomography. Neuroscience, 2006, 138, 1205-1213.	2.3	53
41	Non-invasive and Time-Resolved Observation of Tumors Implanted in Living Mice by Using Phase-Contrast X-ray Computed Tomography. Japanese Journal of Applied Physics, 2006, 45, 1864-1868.	1.5	20
42	High-energy phase-contrast X-ray imaging using a two-crystal X-ray interferometer. Journal of Synchrotron Radiation, 2005, 12, 534-536.	2.4	22
43	Interferometric X-Ray Imaging of Breast Cancer Specimens at 51 keV X-Ray Energy. Japanese Journal of Applied Physics, 2004, 43, 5652-5656.	1.5	19
44	In-Vivo Imaging of Cancer Implanted in Nude Mice by Two-Crystal Interferometer-Based Phase-Contrast X-Ray Computed Tomography. Japanese Journal of Applied Physics, 2004, 43, L1144-L1146.	1.5	11
45	Feasibility Test of a Nonplanar Three-Beam Case X-Ray Interferometer for High-Resolution Phase-Contrast X-Ray Imaging. Japanese Journal of Applied Physics, 2002, 41, L161-L163.	1.5	9
46	Vessel Imaging by Interferometric Phase-Contrast X-Ray Technique. Circulation, 2002, 105, 1708-1712.	1.6	83
47	Large-area phase-contrast X-ray imaging using a two-crystal X-ray interferometer. Journal of Synchrotron Radiation, 2002, 9, 277-281.	2.4	54
48	Operation of a separated-type x-ray interferometer for phase-contrast x-ray imaging. Review of Scientific Instruments, 1999, 70, 4582-4586.	1.3	42
49	Phase-Contrast Tomographic Imaging Using an X-ray Interferometer. Journal of Synchrotron Radiation, 1998, 5, 309-314.	2.4	65
50	Phase-contrast x-ray imaging using an x-ray interferometer. Synchrotron Radiation News, 1998, 11, 27-32.	0.8	3
51	Operation of a Two-Crystal X-ray Interferometer at the Photon Factory. Journal of Synchrotron Radiation, 1997, 4, 311-312.	2.4	40