

Yoshiki Kohmura

List of Publications by Year in descending order

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81
papers

2,658
citations

218677

26
h-index

189892

50
g-index

82
all docs

82
docs citations

82
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nature of Ultraluminous Compact X-ray Sources in Nearby Spiral Galaxies. <i>Astrophysical Journal</i> , 2000, 535, 632-643.	4.5	434
2	The Gas Imaging Spectrometer on Board ASCA. <i>Publication of the Astronomical Society of Japan</i> , 1996, 48, 157-170.	2.5	219
3	In-Orbit Performance of the Gas Imaging Spectrometer onboard ASCA. <i>Publication of the Astronomical Society of Japan</i> , 1996, 48, 171-189.	2.5	178
4	Three-Dimensional GaN/Ga ₂ O ₃ Core Shell Structure Revealed by X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2006, 97, 215503.	7.8	117
5	Quantitative Image Reconstruction of GaN Quantum Dots from Oversampled Diffraction Intensities Alone. <i>Physical Review Letters</i> , 2005, 95, 085503.	7.8	93
6	High-Resolution Multislice X-Ray Ptychography of Extended Thick Objects. <i>Physical Review Letters</i> , 2014, 112, 053903.	7.8	93
7	Bragg x-ray ptychography of a silicon crystal: Visualization of the dislocation strain field and the production of a vortex beam. <i>Physical Review B</i> , 2013, 87, .	3.2	84
8	X-Ray Properties of the Nucleus of M81. <i>Publication of the Astronomical Society of Japan</i> , 1996, 48, 237-248.	2.5	83
9	50-nm-resolution full-field X-ray microscope without chromatic aberration using total-reflection imaging mirrors. <i>Scientific Reports</i> , 2017, 7, 46358.	3.3	78
10	Towards high-resolution ptychographic x-ray diffraction microscopy. <i>Physical Review B</i> , 2011, 83, .	3.2	71
11	Imaging Fully Hydrated Whole Cells by Coherent X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2013, 110, 098103.	7.8	71
12	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. <i>Nature Communications</i> , 2014, 5, 3798.	12.8	61
13	The role of pigment cells in the brain of ascidian larva. <i>Journal of Comparative Neurology</i> , 2004, 475, 70-82.	1.6	59
14	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. <i>Optics Express</i> , 2012, 20, 24977.	3.4	52
15	Phase retrieval from exactly oversampled diffraction intensity through deconvolution. <i>Physical Review B</i> , 2007, 75, .	3.2	51
16	KOTOBUKI-1 apparatus for cryogenic coherent X-ray diffraction imaging. <i>Review of Scientific Instruments</i> , 2013, 84, 093705.	1.3	51
17	Nanoscale Imaging of Mineral Crystals inside Biological Composite Materials Using X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2008, 100, 038103.	7.8	47
18	Three-Dimensional Coherent X-Ray Diffraction Imaging of Molten Iron in Mantle Olivine at Nanoscale Resolution. <i>Physical Review Letters</i> , 2013, 110, 205501.	7.8	45

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19	Nearly diffraction-limited X-ray focusing with variable-numerical-aperture focusing optical system based on four deformable mirrors. <i>Scientific Reports</i> , 2016, 6, 24801.	3.3	41
20	X-ray focusing test and x-ray imaging test by a microcapillary x-ray lens at an undulator beamline. <i>Review of Scientific Instruments</i> , 1999, 70, 4161-4167.	1.3	36
21	Synchrotron x-ray imaging of pulmonary alveoli in respiration in live intact mice. <i>Scientific Reports</i> , 2015, 5, 8760.	3.3	36
22	X-ray optics research and development for SPring-8 beamlines. <i>Review of Scientific Instruments</i> , 1995, 66, 2254-2256.	1.3	32
23	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. <i>Optics Letters</i> , 2019, 44, 1403.	3.3	31
24	Hard-X-ray imaging optics based on four aspherical mirrors with 50 nm resolution. <i>Optics Express</i> , 2012, 20, 10310.	3.4	27
25	Multiscale element mapping of buried structures by ptychographic x-ray diffraction microscopy using anomalous scattering. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	26
26	High-resolution and high-sensitivity phase-contrast imaging by focused hard x-ray ptychography with a spatial filter. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	26
27	A synchrotron X-ray imaging strategy to map large animal brains. <i>Chinese Journal of Physics</i> , 2020, 65, 24-32.	3.9	24
28	Full-field X-ray fluorescence microscope based on total-reflection advanced Kirkpatrick-Baez mirror optics. <i>Optics Express</i> , 2019, 27, 18318.	3.4	23
29	Hard X-ray nanofocusing using adaptive focusing optics based on piezoelectric deformable mirrors. <i>Review of Scientific Instruments</i> , 2015, 86, 043102.	1.3	21
30	Nano-structuring of multi-layer material by single x-ray vortex pulse with femtosecond duration. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	19
31	Shearing x-ray interferometer with an x-ray prism. <i>Journal of Applied Physics</i> , 2003, 93, 2283-2285.	2.5	18
32	Formation of x-ray vortex dipoles using a single diffraction pattern and direct phase measurement using interferometry. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	18
33	Coherent diffraction microscopy at SPring-8: instrumentation, data acquisition and data analysis. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 293-298.	2.4	18
34	Improving charge-collection efficiency of SOI pixel sensors for X-ray astronomy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 794, 255-259.	1.6	18
35	Achromatic and high-resolution full-field X-ray microscopy based on total-reflection mirrors. <i>Optics Express</i> , 2015, 23, 9746.	3.4	17
36	Standard Transport Channels of X-ray Beamlines at SPring-8. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 1202-1205.	2.4	16

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37	Quantitative Imaging of Single Unstained Magnetotactic Bacteria by Coherent X-ray Diffraction Microscopy. <i>Analytical Chemistry</i> , 2015, 87, 5849-5853.	6.5	16
38	Ellipsoidal mirror for two-dimensional 100-nm focusing in hard X-ray region. <i>Scientific Reports</i> , 2017, 7, 16408.	3.3	16
39	Dynamical Heterogeneity near Glass Transition Temperature under Shear Conditions. <i>Physical Review Letters</i> , 2020, 124, 118004.	7.8	16
40	Berry-Phase Translation of X Rays by a Deformed Crystal. <i>Physical Review Letters</i> , 2010, 104, 244801.	7.8	15
41	Experimental and simulation study of undesirable short-period deformation in piezoelectric deformable x-ray mirrors. <i>Review of Scientific Instruments</i> , 2012, 83, 053701.	1.3	12
42	Tracking X-ray microscopy for alveolar dynamics in live intact mice. <i>Scientific Reports</i> , 2013, 3, 1304.	3.3	12
43	Visualization of a Mammalian Mitochondrion by Coherent X-ray Diffractive Imaging. <i>Scientific Reports</i> , 2017, 7, 1850.	3.3	12
44	Measuring the topological charge of an x-ray vortex using a triangular aperture. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 045604.	2.2	12
45	Static structure and dynamical behavior of colloidal liquid crystals consisting of hydroxyapatite-based nanorod hybrids. <i>Soft Matter</i> , 2019, 15, 3315-3322.	2.7	12
46	Compact reflective imaging optics in hard X-ray region based on concave and convex mirrors. <i>Optics Express</i> , 2019, 27, 3429.	3.4	12
47	Phase retrieval with two-beam off-axis x-ray holography. <i>Journal of Applied Physics</i> , 2004, 96, 1781-1784.	2.5	11
48	X-Ray Diffraction Topography on a BaTiO ₃ Crystal. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 1050-1053.	1.6	11
49	X-ray nanofocusing using a piezoelectric deformable mirror and at-wavelength metrology methods. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 710, 93-97.	1.6	11
50	Development of a single-shot CCD-based data acquisition system for time-resolved X-ray photoelectron spectroscopy at an X-ray free-electron laser facility. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 183-192.	2.4	11
51	X-Ray Topography on Domain-Controlled BaTiO ₃ Crystals. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 6821-6824.	1.5	10
52	Effect of distorted illumination waves on coherent diffraction microscopy. <i>Journal of Applied Physics</i> , 2005, 98, 123105.	2.5	10
53	Diffraction apparatus and procedure in tomography X-ray diffraction imaging for biological cells at cryogenic temperature using synchrotron X-ray radiation. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1803-1818.	2.4	10
54	Nearly diffraction-limited hard X-ray line focusing with hybrid adaptive X-ray mirror based on mechanical and piezo-driven deformation. <i>Optics Express</i> , 2018, 26, 17477.	3.4	9

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55	Suppression of Corrugated Boundaries in Multilayer Fresnel Zone Plate for Hard X-Ray Synchrotron Radiation Using Cylindrical Slit. Japanese Journal of Applied Physics, 2001, 40, 4747-4748.	1.5	8
56	Controlling the Propagation of X-Ray Waves inside a Heteroepitaxial Crystal Containing Quantum Dots Using Berry's Phase. Physical Review Letters, 2013, 110, 057402.	7.8	8
57	<title>X-ray bubble lens and x-ray hollow plastic ball lens</title>. , 1998, 3449, 185.		7
58	Assessment of radiation damage in single-shot coherent diffraction of DNA molecules by an extreme-ultraviolet free-electron laser. Physical Review E, 2012, 86, 042901.	2.1	7
59	Simulation and Experimental Study of Wavefront Measurement Accuracy of the Pencil-Beam Method. Synchrotron Radiation News, 2016, 29, 32-36.	0.8	7
60	Compact full-field hard x-ray microscope based on advanced Kirkpatrick-Baez mirrors. Optica, 2020, 7, 367.	9.3	7
61	Development of an adaptable coherent x-ray diffraction microscope with the emphasis on imaging hydrated specimens. Review of Scientific Instruments, 2013, 84, 113702.	1.3	6
62	Four-dimensional visualization of rising microbubbles. Scientific Reports, 2015, 4, 5083.	3.3	6
63	Evaluation of Defects inside Beryllium Foils using X-ray Computed Tomography and Shearing Interferometry. AIP Conference Proceedings, 2007, , .	0.4	5
64	X-ray microscope for imaging topological charge and orbital angular momentum distribution formed by chirality. Optics Express, 2020, 28, 24115.	3.4	5
65	A New Concept of X-Ray Microscopes with a Coded Aperture Imaging Mask. Japanese Journal of Applied Physics, 1995, 34, 372-373.	1.5	4
66	X-Ray Scattering from Nonideal Czochralski Silicon Crystals for High Energy Synchrotron Radiation. Japanese Journal of Applied Physics, 1997, 36, 2792-2799.	1.5	4
67	Reconstruction of complex-valued electron density with x-ray in-line holograms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 3171.	1.5	4
68	Direct Observation of X-ray Induced Atomic Motion Using Scanning Tunneling Microscope Combined with Synchrotron Radiation. Journal of Nanoscience and Nanotechnology, 2011, 11, 2873-2881.	0.9	4
69	Stochastic chromatin packing of 3D mitotic chromosomes revealed by coherent X-rays. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	4
70	Determination of complex transmissivity using x-ray in-line holography and two-beam interferometry. Journal of Applied Physics, 2007, 102, 023101.	2.5	3
71	Optimal deformation procedure for hybrid adaptive x-ray mirror based on mechanical and piezo-driven bending system. Review of Scientific Instruments, 2021, 92, 123706.	1.3	3
72	Measurement of X-ray beam emittance using crystal optics at an X-ray undulator beamline. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 452, 343-350.	1.6	2

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73	X-ray Diffraction Topography of BaTiO ₃ at Phase Transition Temperature. Japanese Journal of Applied Physics, 2009, 48, 09KF01.	1.5	2
74	High-Resolution Full-Field X-ray Microscope for 20-keV X-rays with Multilayer Imaging Mirrors. Microscopy and Microanalysis, 2018, 24, 288-289.	0.4	2
75	X-ray adaptive zoom condenser utilizing an intermediate virtual focus. Optics Express, 2021, 29, 15604.	3.4	2
76	Quantitative analysis of the effect of radiation on mitochondria structure using coherent diffraction imaging with a clustering algorithm. IUCr, 2022, 9, 223-230.	2.2	2
77	X-ray imaging microscopy using a micro capillary X-ray refractive lens. AIP Conference Proceedings, 2000, , .	0.4	1
78	Unidirectional x-ray output from a crystal waveguide affected by Berry's phase. Optics Express, 2016, 24, 24544.	3.4	1
79	Adaptive x-ray zoom condenser system based on concave and convex mirrors. , 2020, , .		1
80	Development of high-accuracy X-ray ptychography apparatus. Journal of Physics: Conference Series, 2013, 463, 012039.	0.4	0
81	Development of concave-convex imaging mirror system for a compact and achromatic full-field x-ray microscope. , 2017, , .		0