

# 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	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
2	X-ray adaptive zoom condenser utilizing an intermediate virtual focus. Optics Express, 2021, 29, 15604.	3.4	2
3	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
4	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
5	Dynamical Heterogeneity near Glass Transition Temperature under Shear Conditions. Physical Review Letters, 2020, 124, 118004.	7.8	16
6	A synchrotron X-ray imaging strategy to map large animal brains. Chinese Journal of Physics, 2020, 65, 24-32.	3.9	24
7	Adaptive x-ray zoom condenser system based on concave and convex mirrors. , 2020, , .		1
8	Compact full-field hard x-ray microscope based on advanced Kirkpatrickâ€“Baez mirrors. Optica, 2020, 7, 367.	9.3	7
9	X-ray microscope for imaging topological charge and orbital angular momentum distribution formed by chirality. Optics Express, 2020, 28, 24115.	3.4	5
10	Measuring the topological charge of an x-ray vortex using a triangular aperture. Journal of Optics (United Kingdom), 2019, 21, 045604.	2.2	12
11	Static structure and dynamical behavior of colloidal liquid crystals consisting of hydroxyapatite-based nanorod hybrids. Soft Matter, 2019, 15, 3315-3322.	2.7	12
12	Compact reflective imaging optics in hard X-ray region based on concave and convex mirrors. Optics Express, 2019, 27, 3429.	3.4	12
13	Full-field X-ray fluorescence microscope based on total-reflection advanced Kirkpatrickâ€“Baez mirror optics. Optics Express, 2019, 27, 18318.	3.4	23
14	Development of an X-ray imaging detector to resolve 200â€“nm line-and-space patterns by using transparent ceramics layers bonded by solid-state diffusion. Optics Letters, 2019, 44, 1403.	3.3	31
15	Nano-structuring of multi-layer material by single x-ray vortex pulse with femtosecond duration. Applied Physics Letters, 2018, 112, .	3.3	19
16	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
17	Nearly diffraction-limited hard X-ray line focusing with hybrid adaptive X-ray mirror based on mechanical and piezo-driven deformation. Optics Express, 2018, 26, 17477.	3.4	9
18	Diffraction apparatus and procedure in tomography X-ray diffraction imaging for biological cells at cryogenic temperature using synchrotron X-ray radiation. Journal of Synchrotron Radiation, 2018, 25, 1803-1818.	2.4	10

#	ARTICLE	IF	CITATIONS
19	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
20	Visualization of a Mammalian Mitochondrion by Coherent X-ray Diffractive Imaging. <i>Scientific Reports</i> , 2017, 7, 1850.	3.3	12
21	Ellipsoidal mirror for two-dimensional 100-nm focusing in hard X-ray region. <i>Scientific Reports</i> , 2017, 7, 16408.	3.3	16
22	Development of concave-convex imaging mirror system for a compact and achromatic full-field x-ray microscope. , 2017, , .		0
23	Unidirectional x-ray output from a crystal waveguide affected by Berry's phase. <i>Optics Express</i> , 2016, 24, 24544.	3.4	1
24	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
25	Simulation and Experimental Study of Wavefront Measurement Accuracy of the Pencil-Beam Method. <i>Synchrotron Radiation News</i> , 2016, 29, 32-36.	0.8	7
26	Synchrotron x-ray imaging of pulmonary alveoli in respiration in live intact mice. <i>Scientific Reports</i> , 2015, 5, 8760.	3.3	36
27	Four-dimensional visualization of rising microbubbles. <i>Scientific Reports</i> , 2015, 4, 5083.	3.3	6
28	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
29	Quantitative Imaging of Single Unstained Magnetotactic Bacteria by Coherent X-ray Diffraction Microscopy. <i>Analytical Chemistry</i> , 2015, 87, 5849-5853.	6.5	16
30	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
31	Achromatic and high-resolution full-field X-ray microscopy based on total-reflection mirrors. <i>Optics Express</i> , 2015, 23, 9746.	3.4	17
32	High-Resolution Multislice X-Ray Ptychography of Extended Thick Objects. <i>Physical Review Letters</i> , 2014, 112, 053903.	7.8	93
33	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
34	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
35	Development of an adaptable coherent x-ray diffraction microscope with the emphasis on imaging hydrated specimens. <i>Review of Scientific Instruments</i> , 2013, 84, 113702.	1.3	6
36	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

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37	X-ray nanofocusing using a piezoelectric deformable mirror and at-wavelength metrology methods. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 710, 93-97.	1.6	11
38	Imaging Fully Hydrated Whole Cells by Coherent X-Ray Diffraction Microscopy. Physical Review Letters, 2013, 110, 098103.	7.8	71
39	Three-Dimensional Coherent X-Ray Diffraction Imaging of Molten Iron in Mantle Olivine at Nanoscale Resolution. Physical Review Letters, 2013, 110, 205501.	7.8	45
40	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
41	KOTOBUKI-1 apparatus for cryogenic coherent x-ray diffraction imaging. Review of Scientific Instruments, 2013, 84, 093705.	1.3	51
42	High-resolution and high-sensitivity phase-contrast imaging by focused hard x-ray ptychography with a spatial filter. Applied Physics Letters, 2013, 102, .	3.3	26
43	Tracking X-ray microscopy for alveolar dynamics in live intact mice. Scientific Reports, 2013, 3, 1304.	3.3	12
44	Development of high-accuracy X-ray ptychography apparatus. Journal of Physics: Conference Series, 2013, 463, 012039.	0.4	0
45	Hard-X-ray imaging optics based on four aspherical mirrors with 50 nm resolution. Optics Express, 2012, 20, 10310.	3.4	27
46	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. Optics Express, 2012, 20, 24977.	3.4	52
47	Experimental and simulation study of undesirable short-period deformation in piezoelectric deformable x-ray mirrors. Review of Scientific Instruments, 2012, 83, 053701.	1.3	12
48	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
49	Towards high-resolution ptychographic x-ray diffraction microscopy. Physical Review B, 2011, 83, .	3.2	71
50	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
51	Coherent diffraction microscopy at SPring-8: instrumentation, data acquisition and data analysis. Journal of Synchrotron Radiation, 2011, 18, 293-298.	2.4	18
52	Multiscale element mapping of buried structures by ptychographic x-ray diffraction microscopy using anomalous scattering. Applied Physics Letters, 2011, 99, .	3.3	26
53	Berry-Phase Translation of X Rays by a Deformed Crystal. Physical Review Letters, 2010, 104, 244801.	7.8	15
54	Formation of x-ray vortex dipoles using a single diffraction pattern and direct phase measurement using interferometry. Applied Physics Letters, 2009, 94, .	3.3	18

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55	X-ray Diffraction Topography of BaTiO <sub>3</sub> at Phase Transition Temperature. Japanese Journal of Applied Physics, 2009, 48, 09KF01.	1.5	2
56	Nanoscale Imaging of Mineral Crystals inside Biological Composite Materials Using X-Ray Diffraction Microscopy. Physical Review Letters, 2008, 100, 038103.	7.8	47
57	Evaluation of Defects inside Beryllium Foils using X-ray Computed Tomography and Shearing Interferometry. AIP Conference Proceedings, 2007, , .	0.4	5
58	Phase retrieval from exactly oversampled diffraction intensity through deconvolution. Physical Review B, 2007, 75, .	3.2	51
59	Determination of complex transmissivity using x-ray in-line holography and two-beam interferometry. Journal of Applied Physics, 2007, 102, 023101.	2.5	3
60	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
61	Three-Dimensional GaN/Ga <sub>2</sub> O <sub>3</sub> Core Shell Structure Revealed by X-Ray Diffraction Microscopy. Physical Review Letters, 2006, 97, 215503.	7.8	117
62	Quantitative Image Reconstruction of GaN Quantum Dots from Oversampled Diffraction Intensities Alone. Physical Review Letters, 2005, 95, 085503.	7.8	93
63	Effect of distorted illumination waves on coherent diffraction microscopy. Journal of Applied Physics, 2005, 98, 123105.	2.5	10
64	X-Ray Topography on Domain-Controlled BaTiO <sub>3</sub> Crystals. Japanese Journal of Applied Physics, 2004, 43, 6821-6824.	1.5	10
65	Phase retrieval with two-beam off-axis x-ray holography. Journal of Applied Physics, 2004, 96, 1781-1784.	2.5	11
66	The role of pigment cells in the brain of ascidian larva. Journal of Comparative Neurology, 2004, 475, 70-82.	1.6	59
67	X-Ray Diffraction Topography on a BaTiO <sub>3</sub> Crystal. Journal of the Physical Society of Japan, 2004, 73, 1050-1053.	1.6	11
68	Shearing x-ray interferometer with an x-ray prism. Journal of Applied Physics, 2003, 93, 2283-2285.	2.5	18
69	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
70	The Nature of Ultraluminous Compact X-ray Sources in Nearby Spiral Galaxies. Astrophysical Journal, 2000, 535, 632-643.	4.5	434
71	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
72	X-ray imaging microscopy using a micro capillary X-ray refractive lens. AIP Conference Proceedings, 2000, , .	0.4	1

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73	X-ray focusing test and x-ray imaging test by a microcapillary x-ray lens at an undulator beamline. Review of Scientific Instruments, 1999, 70, 4161-4167.	1.3	36
74	Standard Transport Channels of X-ray Beamlines at SPring-8. Journal of Synchrotron Radiation, 1998, 5, 1202-1205.	2.4	16
75	<title>X-ray bubble lens and x-ray hollow plastic ball lens</title>. , 1998, 3449, 185.		7
76	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
77	In-Orbit Performance of the Gas Imaging Spectrometer onboard ASCA. Publication of the Astronomical Society of Japan, 1996, 48, 171-189.	2.5	178
78	X-Ray Properties of the Nucleus of M81. Publication of the Astronomical Society of Japan, 1996, 48, 237-248.	2.5	83
79	The Gas Imaging Spectrometer on Board ASCA. Publication of the Astronomical Society of Japan, 1996, 48, 157-170.	2.5	219
80	X-ray optics research and development for SPring-8 beamlines. Review of Scientific Instruments, 1995, 66, 2254-2256.	1.3	32
81	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