Tetsuya Ishikawa

List of Publications by Year
in descending order

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870	26,331	7568	12946
papers	citations	77 h-index	131 g-index

878	878	878	14682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A compact X-ray free-electron laser emitting in the sub-Ã¥ngstrÃ¶m region. Nature Photonics, 2012, 6, 540-544.	31.4	1,542
2	Beyond crystallography: Diffractive imaging using coherent x-ray light sources. Science, 2015, 348, 530-535.	12.6	596
3	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. Nature, 2017, 543, 131-135.	27.8	515
4	Breaking the 10â€‰nm barrier in hard-X-ray focusing. Nature Physics, 2010, 6, 122-125.	16.7	484
5	A compact free-electron laser for generating coherent radiation in the extreme ultraviolet region. Nature Photonics, 2008, 2, 555-559.	31.4	414
6	High resolution-high energy x-ray photoelectron spectroscopy using third-generation synchrotron radiation source, and its application to Si-high k insulator systems. Applied Physics Letters, 2003, 83, 1005-1007.	3.3	351
7	Variation of electronic structure inLa1â^'xSrxMnO3f(0â©½xâ©½0.3) as investigated by optical conductivity spectra. Physical Review B, 1997, 55, 4206-4214.	3.2	309
8	High Resolution 3D X-Ray Diffraction Microscopy. Physical Review Letters, 2002, 89, 088303.	7.8	288
9	Imaging whole Escherichia coli bacteria by using single-particle x-ray diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 110-112.	7.1	280
10	Human mitotic chromosomes consist predominantly of irregularly folded nucleosome fibres without a 30-nm chromatin structure. EMBO Journal, 2012, 31, 1644-1653.	7.8	269
11	Three-Dimensional Visualization of a Human Chromosome Using Coherent X-Ray Diffraction. Physical Review Letters, 2009, 102, 018101.	7.8	266
12	Quantitative 3D imaging of whole, unstained cells by using X-ray diffraction microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11234-11239.	7.1	241
13	An X-ray scattering beamline for studying dynamics. Journal of Physics and Chemistry of Solids, 2000, 61, 461-465.	4.0	237
14	Determination of damage-free crystal structure of an X-rayâ€“sensitive protein using an XFEL. Nature Methods, 2014, 11, 734-736.	19.0	237
15	Focusing of X-ray free-electron laser pulses with reflective optics. Nature Photonics, 2013, 7, 43-47.	31.4	234
16	Beamline, experimental stations and photon beam diagnostics for the hard x-ray free electron laser of SACLA. New Journal of Physics, 2013, 15, 083035.	2.9	230
17	Direct observation of bond formation in solution with femtosecond X-ray scattering. Nature, 2015, 518, 385-389.	27.8	207
18	Efficient focusing of hard x rays to 25nm by a total reflection mirror. Applied Physics Letters, 2007, 90, 051903.	3.3	203

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19	Extending X-Ray Crystallography to Allow the Imaging of Noncrystalline Materials, Cells, and Single Protein Complexes. Annual Review of Physical Chemistry, 2008, 59, 387-410.	10.8	197
20	Outline of soft X-ray photochemistry beamline BL27SU of SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 529-532.	1.6	193
21	Monochromator for a soft X-ray photochemistry beamline BL27SU of SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 533-536.	1.6	190
22	Study on the Si(111)$ sqrt{3}{imes}sqrt{3}$-Ag Surface Structure by X-Ray Diffraction. Japanese Journal of Applied Physics, 1988, 27, L753-L755.	1.5	185
23	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. Nature Communications, 2014, 5, 3052.	12.8	183
24	GS-X pump is functionally overexpressed in cis-diamminedichloroplatinum (II)-resistant human leukemia HL-60 cells and down-regulated by cell differentiation.. Journal of Biological Chemistry, 1994, 269, 29085-29093.	3.4	182
25	Two-colour hard X-ray free-electron laser with wide tunability. Nature Communications, 2013, 4, 2919.	12.8	172
26	SPring-8 RIKEN beamline III for coherent X-ray optics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 686-689.	1.6	171
27	Charge-gap formation upon the Verwey transition inFe3O4. Physical Review B, 1998, 58, 3717-3720.	3.2	170
28	Quantitative Imaging of Single, Unstained Viruses with Coherent X Rays. Physical Review Letters, 2008, 101, 158101.	7.8	167
29	Phase retrieval of diffraction patterns from noncrystalline samples using the oversampling method. Physical Review B, 2003, 67, .	3.2	166
30	X-ray two-photon absorption competing against single and sequential multiphoton processes. Nature Photonics, 2014, 8, 313-316.	31.4	164
31	Nucleosomal arrays selfâ€assemble into supramolecular globular structures lacking 30â€nm fibers. EMBO Journal, 2016, 35, 1115-1132.	7.8	164
32	Determination of the Pulse Duration of an X-Ray Free Electron Laser Using Highly Resolved Single-Shot Spectra. Physical Review Letters, 2012, 109, 144801.	7.8	162
33	Microstitching interferometry for x-ray reflective optics. Review of Scientific Instruments, 2003, 74, 2894-2898.	1.3	149
34	Nature of the Well Screened State in Hard X-Ray Mn2pCore-Level Photoemission Measurements ofLa1â^'xSrxMnO3Films. Physical Review Letters, 2004, 93, 236401.	7.8	141
35	Beamline for Surface and Interface Structures at SPring-8. Surface Review and Letters, 2003, 10, 543-547.	1.1	140
36	Chromosomes without a 30-nm chromatin fiber. Nucleus, 2012, 3, 404-410.	2.2	137

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37	Atomic inner-shell laser at 1.5-Ã¥ngstrÃ¶m wavelength pumped by an X-ray free-electron laser. Nature, 2015, 524, 446-449.	27.8	133
38	Helicity-Modulation Technique Using Diffractive Phase Retarder for Measurements of X-ray Magnetic Circular Dichroism. Japanese Journal of Applied Physics, 1998, 37, L1488-L1490.	1.5	129
39	Characterization of the Transverse Coherence of Hard Synchrotron Radiation by Intensity Interferometry. Physical Review Letters, 2001, 87, 140801.	7.8	127
40	High-energy X-ray diffraction beamline: BL04B2 at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 663-666.	1.6	126
41	Generation of 1020â€‰Wâ€‰cmâ^'2 hard X-ray laser pulses with two-stage reflective focusing system. Nature Communications, 2014, 5, 3539.	12.8	124
42	Extreme ultraviolet free electron laser seeded with high-orderâ€¨harmonic of Ti:sapphire laser. Optics Express, 2011, 19, 317.	3.4	123
43	Relative angle determinable stitching interferometry for hard x-ray reflective optics. Review of Scientific Instruments, 2005, 76, 045102.	1.3	119
44	Overview of the SACLA facility. Journal of Synchrotron Radiation, 2015, 22, 477-484.	2.4	118
45	Three-DimensionalGaNâ^'Ga2O3Core Shell Structure Revealed by X-Ray Diffraction Microscopy. Physical Review Letters, 2006, 97, 215503.	7.8	117
46	Single-nanometer focusing of hard x-rays by Kirkpatrickâ€“Baez mirrors. Journal of Physics Condensed Matter, 2011, 23, 394206.	1.8	117
47	X-Ray Second Harmonic Generation. Physical Review Letters, 2014, 112, 163901.	7.8	116
48	Construction and commissioning of a 215-m-long beamline at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 682-685.	1.6	113
49	Construction of a precision diffractometer for nuclear Bragg scattering at the Photon Factory. Review of Scientific Instruments, 1992, 63, 1015-1018.	1.3	107
50	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:msub><mml:mi>YbAlB</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>: A Hard X-Ray Photoemission Study. Physical Review Letters, 2010, 104, 247201.	7.8	104
51	X-ray monochromator with an energy resolution of 8Ã—10â^'9 at 14.41 keV. Review of Scientific Instruments, 2001, 72, 4080-4083.	1.3	103
52	A probe of intrinsic valence band electronic structure: Hard x-ray photoemission. Applied Physics Letters, 2004, 84, 4310-4312.	3.3	103
53	The XAFS beamline BL01B1 at SPring-8. Journal of Synchrotron Radiation, 1999, 6, 143-145.	2.4	102
54	Evidence for Suppressed Screening on the Surface of High TemperatureLa2â^'xSrxCuO4andNd2â^'xCexCuO4Superconductors. Physical Review Letters, 2005, 95, 177002.	7.8	100

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55	Fabrication of elliptical mirror at nanometer-level accuracy for hard x-ray focusing by numerically controlled plasma chemical vaporization machining. Review of Scientific Instruments, 2003, 74, 4549-4553.	1.3	99
56	Recoil effects of photoelectrons in a solid. Physical Review B, 2007, 75, .	3.2	99
57	An X-Ray Phase Plate Using Bragg-Case Diffraction. Japanese Journal of Applied Physics, 1991, 30, L407-L410.	1.5	98
58	Revisiting the Valence-Band and Core-Level Photoemission Spectra of NiO. Physical Review Letters, 2008, 100, 206401.	7.8	97
59	Hard X-ray Diffraction-Limited Nanofocusing with Kirkpatrick-Baez Mirrors. Japanese Journal of Applied Physics, 2005, 44, L539-L542.	1.5	95
60	Single-shot beam-position monitor for x-ray free electron laser. Review of Scientific Instruments, 2011, 82, 023108.	1.3	94
61	Saturable absorption of intense hard X-rays in iron. Nature Communications, 2014, 5, 5080.	12.8	94
62	Design of a beamline for the SPring-8 long undulator source 1. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 678-681.	1.6	93
63	Quantitative Image Reconstruction of GaN Quantum Dots from Oversampled Diffraction Intensities Alone. Physical Review Letters, 2005, 95, 085503.	7.8	93
64	High-Resolution Multislice X-Ray Ptychography of Extended Thick Objects. Physical Review Letters, 2014, 112, 053903.	7.8	93
65	Bulk screening in core-level photoemission from Mott-Hubbard and charge-transfer systems. Physical Review B, 2005, 71, .	3.2	91
66	Single-shot three-dimensional structure determination of nanocrystals with femtosecond X-ray free-electron laser pulses. Nature Communications, 2014, 5, 4061.	12.8	91
67	Development of hard X-ray photoelectron spectroscopy at BL29XU in SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 547, 50-55.	1.6	90
68	Photoemission evidence for a Mott-Hubbard metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>VO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review B, 2008, 78, .	3.2	90
69	Elemental mapping of frozenâ€hydrated cells with cryoâ€scanning Xâ€ray fluorescence microscopy. X-Ray Spectrometry, 2010, 39, 260-266.	1.4	90
70	Compact XFEL and AMO sciences: SACLA and SCSS. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164001.	1.5	88
71	Development of scanning x-ray fluorescence microscope with spatial resolution of 30nm using Kirkpatrick-Baez mirror optics. Review of Scientific Instruments, 2006, 77, 103102.	1.3	85
72	Fe3â^'xZnxO4 thin film as tunable high Curie temperature ferromagnetic semiconductor. Applied Physics Letters, 2006, 89, 242507.	3.3	84

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73	Bragg x-ray ptychography of a silicon crystal: Visualization of the dislocation strain field and the production of a vortex beam. Physical Review B, 2013, 87, .	3.2	84
74	Valence Transition ofYbInCu4Observed in Hard X-Ray Photoemission Spectra. Physical Review Letters, 2004, 93, 246404.	7.8	83
75	Electronic structures ofFe3â^'xMxO4(M=Mn,Zn)spinel oxide thin films investigated by x-ray photoemission spectroscopy and x-ray magnetic circular dichroism. Physical Review B, 2007, 76, .	3.2	83
76	Correlation between crystal structure and magnetism in the frustrated antiferromagnetCuFeO2under high magnetic fields. Physical Review B, 2007, 75, .	3.2	81
77	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. Nature Photonics, 2019, 13, 319-322.	31.4	81
78	Development and application of xâ€ray phase retarders (invited). Review of Scientific Instruments, 1995, 66, 1604-1609.	1.3	79
79	Dynamics of photoinduced melting of charge/orbital order in a layered manganiteLa0.5Sr1.5MnO4. Physical Review B, 2001, 63, .	3.2	79
80	50-nm-resolution full-field X-ray microscope without chromatic aberration using total-reflection imaging mirrors. Scientific Reports, 2017, 7, 46358.	3.3	78
81	A soft X-ray free-electron laser beamline at SACLA: the light source, photon beamline and experimental station. Journal of Synchrotron Radiation, 2018, 25, 282-288.	2.4	78
82	Kohn Anomaly inMgB2by Inelastic X-Ray Scattering. Physical Review Letters, 2004, 92, 197004.	7.8	77
83	Performance of a Highly Stabilized and High-resolution Beamline BL17SU for Advanced Soft X-ray Spectroscopy at SPring-8. AIP Conference Proceedings, 2007, , .	0.4	74
84	Measurement of the coherence length of highly collimated X-rays from the visibility of equal-thickness fringes. Acta Crystallographica Section A: Foundations and Advances, 1988, 44, 496-499.	0.3	73
85	Coexistence of Strongly Mixed-Valence and Heavy-Fermion Character inSmOs4Sb12Studied by Soft- and Hard-X-Ray Spectroscopy. Physical Review Letters, 2007, 98, 156402.	7.8	73
86	Towards high-resolution ptychographic x-ray diffraction microscopy. Physical Review B, 2011, 83, .	3.2	71
87	Imaging Fully Hydrated Whole Cells by Coherent X-Ray Diffraction Microscopy. Physical Review Letters, 2013, 110, 098103.	7.8	71
88	Surface structure analysis of Si(111)â^š3 Ã— â^š3-Bi by X-ray diffraction â€" Approach to the solution of the phase problem. Surface Science, 1987, 191, L825-L834.	1.9	69
89	Present status of high flux beamline (BL40XU) at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 674-677.	1.6	69
90	Single Shot Coherence Properties of the Free-Electron Laser SACLA in the Hard X-ray Regime. Scientific Reports, 2014, 4, 5234.	3.3	69

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91	Perfect crystal X-ray phase retarders. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 336, 343-353.	1.6	67
92	A study of the Si(111)-Ag surface by transmission X-ray diffraction and X-ray diffraction topography. Surface Science, 1991, 242, 54-58.	1.9	66
93	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. AIP Conference Proceedings, 2004, , .	0.4	64
94	Element Array by Scanning X-ray Fluorescence Microscopy after Cis-Diamminedichloro-Platinum(II) Treatment. Cancer Research, 2005, 65, 4998-5002.	0.9	64
95	Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN. Physical Review Letters, 2010, 104, 236404.	7.8	64
96	The prominent 5d-orbital contribution to the conduction electrons in gold. New Journal of Physics, 2010, 12, 043045.	2.9	64
97	Fabrication of elliptically figured mirror for focusing hard x rays to size less than 50nm. Review of Scientific Instruments, 2005, 76, 063708.	1.3	63
98	At-wavelength figure metrology of hard x-ray focusing mirrors. Review of Scientific Instruments, 2006, 77, 063712.	1.3	63
99	Three-Dimensional Electron Density Mapping of Shape-Controlled Nanoparticle by Focused Hard X-ray Diffraction Microscopy. Nano Letters, 2010, 10, 1922-1926.	9.1	63
100	Persistence of Covalent Bonding in Liquid Silicon Probed by Inelastic X-Ray Scattering. Physical Review Letters, 2012, 108, 067402.	7.8	63
101	Nearly diffraction-limited line focusing of a hard-X-ray beam with an elliptically figured mirror. Journal of Synchrotron Radiation, 2002, 9, 313-316.	2.4	62
102	Second-order autocorrelation of XUV FEL pulses via time resolved two-photon single ionization of He. Optics Express, 2011, 19, 21698.	3.4	61
103	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. Nature Communications, 2014, 5, 3798.	12.8	61
104	High-resolution X-ray monochromators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 547, 42-49.	1.6	60
105	Performance of a grating monochromator at BL27SU beamline of SPring-8 in the higher energy region. Review of Scientific Instruments, 2002, 73, 1588-1590.	1.3	59
106	Image reconstruction of nanostructured nonperiodic objects only from oversampled hard x-ray diffraction intensities. Physical Review B, 2003, 68, .	3.2	59
107	High-resolution diffraction microscopy using the plane-wave field of a nearly diffraction limited focused x-ray beam. Physical Review B, 2009, 80, .	3.2	59
108	Two-dimensional Submicron Focusing of Hard X-rays by Two Elliptical Mirrors Fabricated by Plasma Chemical Vaporization Machining and Elastic Emission Machining. Japanese Journal of Applied Physics, 2003, 42, 7129-7134.	1.5	57

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109	Recoil Effect of Photoelectrons in the Fermi Edge of Simple Metals. Physical Review Letters, 2008, 101, 137601.	7.8	57
110	A new cryo-EM system for single particle analysis. Journal of Structural Biology, 2019, 207, 40-48.	2.8	57
111	The brightest x-ray source: A very long undulator at SPring-8. Review of Scientific Instruments, 2002, 73, 1125-1128.	1.3	56
112	Stable operation of a self-amplified spontaneous-emission free-electron laser in the extremely ultraviolet region. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	56
113	Trace element mapping of a single cell using a hard xâ€ray nanobeam focused by a Kirkpatrickâ€Baez mirror system. X-Ray Spectrometry, 2009, 38, 89-94.	1.4	56
114	Pulse energy measurement at the hard x-ray laser in Japan. Applied Physics Letters, 2012, 101, .	3.3	56
115	Structural Analysis of the NiSi2/(111)Si Interface by the X-Ray Standing-Wave Method. Japanese Journal of Applied Physics, 1985, 24, 1425-1431.	1.5	55
116	SPring-8 standard x-ray monochromators. , 1999, , .		55
117	Double Core-Hole Creation by Sequential Attosecond Photoionization. Physical Review Letters, 2013, 111, 043001.	7.8	55
118	A Bragg beam splitter for hard x-ray free-electron lasers. Optics Express, 2013, 21, 2823.	3.4	55
119	Focusing mirror for x-ray free-electron lasers. Review of Scientific Instruments, 2008, 79, 083104.	1.3	54
120	Visualizing the local optical response to extreme-ultraviolet radiation with a resolution of Î»/380. Nature Physics, 2011, 7, 705-708.	16.7	54
121	Multiphoton Double Ionization of Ar in Intense Extreme Ultraviolet Laser Fields Studied by Shot-by-Shot Photoelectron Spectroscopy. Physical Review Letters, 2010, 105, 133001.	7.8	53
122	Equi-lattice-spacing mapping X-ray topography. Journal of Applied Crystallography, 1987, 20, 344-348.	4.5	52
123	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. Optics Express, 2012, 20, 24977.	3.4	52
124	Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. Optics Express, 2016, 24, 9187.	3.4	52
125	Phase retrieval from exactly oversampled diffraction intensity through deconvolution. Physical Review B, 2007, 75, .	3.2	51
126	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. New Journal of Physics, 2014, 16, 123045.	2.9	51

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127	Sagittally focusing double-crystal monochromator with constant exit beam height at the photon factory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 246, 377-379.	1.6	50
128	Construction of topography stations at SPring-8 and first observations. Journal Physics D: Applied Physics, 2001, 34, A158-A162.	2.8	50
129	Femtosecond two-photon Rabi oscillations in excited He driven by ultrashort intense laser fields. Nature Photonics, 2016, 10, 102-105.	31.4	50
130	Bulk electronic structure ofNa0.35CoO2â‹…1.3H2O. Physical Review B, 2004, 69, .	3.2	49
131	Multiple application X-ray imaging chamber for single-shot diffraction experiments with femtosecond X-ray laser pulses. Journal of Applied Crystallography, 2014, 47, 188-197.	4.5	49
132	A new cryo-EM system for electron 3D crystallography by eEFD. Journal of Structural Biology, 2019, 206, 243-253.	2.8	49
133	Comparison between experimental and theoretical rocking curves in extremely asymmetric Bragg cases of X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 1994, 50, 337-342.	0.3	48
134	The optically active center and its activation process in Er-doped Si thin film produced by laser ablation. Journal of Applied Physics, 1999, 85, 4024-4031.	2.5	48
135	Electron correlation in the FeSe superconductor studied by bulk-sensitive photoemission spectroscopy. Physical Review B, 2010, 82, .	3.2	48
136	Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 838-842.	2.5	48
137	Nanoscale Imaging of Mineral Crystals inside Biological Composite Materials Using X-Ray Diffraction Microscopy. Physical Review Letters, 2008, 100, 038103.	7.8	47
138	Polarization tunability and analysis for observing magnetic effects on BL39XU at SPring-8. Journal of Synchrotron Radiation, 1999, 6, 1133-1137.	2.4	46
139	Wave-optical evaluation of interference fringes and wavefront phase in a hard-x-ray beam totally reflected by mirror optics. Applied Optics, 2005, 44, 6927.	2.1	46
140	Field-induced lattice staircase in a frustrated antiferromagnetCuFeO2. Physical Review B, 2006, 74, .	3.2	46
141	Electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ce</mml:mi><mml:msub><mml:mi mathvariant="normal">Ru</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub> xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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145	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
146	High precision goniometer system for topography and diffractometry using multiple crystal arrangement. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 246, 613-616.	1.6	44
147	A compact optical design for Bragg reflections near backscattering. Journal of Synchrotron Radiation, 2001, 8, 1127-1130.	2.4	44
148	Dead-time-free ion momentum spectroscopy of multiple ionization of Xe clusters irradiated by euv free-electron laser pulses. Physical Review A, 2009, 79, .	2.5	44
149	Observation of Free-Electron-Laser-Induced Collective Spontaneous Emission (Superfluorescence). Physical Review Letters, 2011, 107, 193603.	7.8	44
150	Cryogenic cooling monochromators for the SPring-8 undualtor beamlines. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 647-649.	1.6	43
151	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. Scientific Reports, 2016, 5, 17713.	3.3	43
152	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. Scientific Reports, 2018, 8, 17440.	3.3	43
153	Direct observation of picosecond melting and disintegration of metallic nanoparticles. Nature Communications, 2019, 10, 2411.	12.8	43
154	Tunable-wavelength production of circularly polarized X-rays with a perfect-crystal quarter-wave plate. Journal of Applied Crystallography, 1992, 25, 531-535.	4.5	42
155	X-ray diffractometer combining synchrotron radiation and pulsed magnetic fields up to 40â€…T. Journal of Synchrotron Radiation, 2006, 13, 271-274.	2.4	42
156	Early commissioning of the SPring-8 beamline for high resolution inelastic X-ray scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 627-630.	1.6	41
157	Direct and quantitative determination of the orbital ordering in CeB 6 by X-ray diffraction. Europhysics Letters, 2004, 68, 671-677.	2.0	41
158	X-Ray Resonance in Crystal Cavities: Realization of Fabry-Perot Resonator for Hard X Rays. Physical Review Letters, 2005, 94, 174801.	7.8	41
159	Interference between Compton Scattering and X-Ray Parametric Down-Conversion. Physical Review Letters, 2007, 98, 244801.	7.8	41
160	Frustration of direct photoionization of Ar clusters in intense extreme ultraviolet pulses from a free electron laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 134019.	1.5	41
161	Upgrade of long trace profiler for characterization of high-precision X-ray mirrors at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 616, 237-240.	1.6	41
162	Determination of the absolute two-photon ionization cross section of He by an XUV free electron laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 161001.	1.5	41

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163	Optics for coherent X-ray applications. Journal of Synchrotron Radiation, 2014, 21, 976-985.	2.4	41
164	Nearly diffraction-limited X-ray focusing with variable-numerical-aperture focusing optical system based on four deformable mirrors. Scientific Reports, 2016, 6, 24801.	3.3	41
165	Dynamic fracture of tantalum under extreme tensile stress. Science Advances, 2017, 3, e1602705.	10.3	41
166	Measurement of X-Ray Pulse Widths by Intensity Interferometry. Physical Review Letters, 2002, 88, 244801.	7.8	40
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