

# Tetsuya Ishikawa

## List of Publications by Year in descending order

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870  
papers

26,331  
citations

7551

77  
h-index

12910

131  
g-index

878  
all docs

878  
docs citations

878  
times ranked

14682  
citing authors

#	ARTICLE	IF	CITATIONS
1	A compact X-ray free-electron laser emitting in the sub-Ångström region. <i>Nature Photonics</i> , 2012, 6, 540-544.	15.6	1,542
2	Beyond crystallography: Diffractive imaging using coherent x-ray light sources. <i>Science</i> , 2015, 348, 530-535.	6.0	596
3	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. <i>Nature</i> , 2017, 543, 131-135.	13.7	515
4	Breaking the 10-µm barrier in hard-X-ray focusing. <i>Nature Physics</i> , 2010, 6, 122-125.	6.5	484
5	A compact free-electron laser for generating coherent radiation in the extreme ultraviolet region. <i>Nature Photonics</i> , 2008, 2, 555-559.	15.6	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. <i>Applied Physics Letters</i> , 2003, 83, 1005-1007.	1.5	351
7	Variation of electronic structure in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ( $0 \leq x \leq 0.3$ ) as investigated by optical conductivity spectra. <i>Physical Review B</i> , 1997, 55, 4206-4214.	1.1	309
8	High Resolution 3D X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2002, 89, 088303.	2.9	288
9	Imaging whole <i>Escherichia coli</i> bacteria by using single-particle x-ray diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 110-112.	3.3	280
10	Human mitotic chromosomes consist predominantly of irregularly folded nucleosome fibres without a 30-nm chromatin structure. <i>EMBO Journal</i> , 2012, 31, 1644-1653.	3.5	269
11	Three-Dimensional Visualization of a Human Chromosome Using Coherent X-Ray Diffraction. <i>Physical Review Letters</i> , 2009, 102, 018101.	2.9	266
12	Quantitative 3D imaging of whole, unstained cells by using X-ray diffraction microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11234-11239.	3.3	241
13	An X-ray scattering beamline for studying dynamics. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 461-465.	1.9	237
14	Determination of damage-free crystal structure of an X-ray-sensitive protein using an XFEL. <i>Nature Methods</i> , 2014, 11, 734-736.	9.0	237
15	Focusing of X-ray free-electron laser pulses with reflective optics. <i>Nature Photonics</i> , 2013, 7, 43-47.	15.6	234
16	Beamline, experimental stations and photon beam diagnostics for the hard x-ray free electron laser of SACLA. <i>New Journal of Physics</i> , 2013, 15, 083035.	1.2	230
17	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389.	13.7	207
18	Efficient focusing of hard x rays to 25nm by a total reflection mirror. <i>Applied Physics Letters</i> , 2007, 90, 051903.	1.5	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.	4.8	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.	0.7	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.	0.7	190
22	Study on the Si(111) $\sqrt{3}\times\sqrt{3}$ -Ag Surface Structure by X-Ray Diffraction. Japanese Journal of Applied Physics, 1988, 27, L753-L755.	0.8	185
23	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. Nature Communications, 2014, 5, 3052.	5.8	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.	1.6	182
25	Two-colour hard X-ray free-electron laser with wide tunability. Nature Communications, 2013, 4, 2919.	5.8	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.	0.7	171
27	Charge-gap formation upon the Verwey transition in Fe <sub>3</sub> O <sub>4</sub> . Physical Review B, 1998, 58, 3717-3720.	1.1	170
28	Quantitative Imaging of Single, Unstained Viruses with Coherent X Rays. Physical Review Letters, 2008, 101, 158101.	2.9	167
29	Phase retrieval of diffraction patterns from noncrystalline samples using the oversampling method. Physical Review B, 2003, 67, .	1.1	166
30	X-ray two-photon absorption competing against single and sequential multiphoton processes. Nature Photonics, 2014, 8, 313-316.	15.6	164
31	Nucleosomal arrays self-assemble into supramolecular globular structures lacking 30-nm fibers. EMBO Journal, 2016, 35, 1115-1132.	3.5	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.	2.9	162
33	Microstitching interferometry for x-ray reflective optics. Review of Scientific Instruments, 2003, 74, 2894-2898.	0.6	149
34	Nature of the Well Screened State in Hard X-Ray Mn2p Core-Level Photoemission Measurements of La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> Films. Physical Review Letters, 2004, 93, 236401.	2.9	141
35	Beamline for Surface and Interface Structures at SPring-8. Surface Review and Letters, 2003, 10, 543-547.	0.5	140
36	Chromosomes without a 30-nm chromatin fiber. Nucleus, 2012, 3, 404-410.	0.6	137

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37	Atomic inner-shell laser at 1.5-Å wavelength pumped by an X-ray free-electron laser. <i>Nature</i> , 2015, 524, 446-449.	13.7	133
38	Helicity-Modulation Technique Using Diffractive Phase Retarder for Measurements of X-ray Magnetic Circular Dichroism. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1488-L1490.	0.8	129
39	Characterization of the Transverse Coherence of Hard Synchrotron Radiation by Intensity Interferometry. <i>Physical Review Letters</i> , 2001, 87, 140801.	2.9	127
40	High-energy X-ray diffraction beamline: BL04B2 at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 663-666.	0.7	126
41	Generation of 1020-attosecond hard X-ray laser pulses with two-stage reflective focusing system. <i>Nature Communications</i> , 2014, 5, 3539.	5.8	124
42	Extreme ultraviolet free electron laser seeded with high-order harmonic of Ti:sapphire laser. <i>Optics Express</i> , 2011, 19, 317.	1.7	123
43	Relative angle determinable stitching interferometry for hard x-ray reflective optics. <i>Review of Scientific Instruments</i> , 2005, 76, 045102.	0.6	119
44	Overview of the SACLA facility. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 477-484.	1.0	118
45	Three-Dimensional GaN/Ga <sub>2</sub> O <sub>3</sub> Core Shell Structure Revealed by X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2006, 97, 215503.	2.9	117
46	Single-nanometer focusing of hard x-rays by Kirkpatrick-Baez mirrors. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 394206.	0.7	117
47	X-Ray Second Harmonic Generation. <i>Physical Review Letters</i> , 2014, 112, 163901.	2.9	116
48	Construction and commissioning of a 215-m-long beamline at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 682-685.	0.7	113
49	Construction of a precision diffractometer for nuclear Bragg scattering at the Photon Factory. <i>Review of Scientific Instruments</i> , 1992, 63, 1015-1018.	0.6	107
50	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor $\text{YbAlB}_4$ : A Hard X-Ray Photoemission Study. <i>Physical Review Letters</i> , 2010, 104, 247201.	2.9	104
51	X-ray monochromator with an energy resolution of $8\text{Å}-10\text{Å}^2$ at 14.41 keV. <i>Review of Scientific Instruments</i> , 2001, 72, 4080-4083.	0.6	103
52	A probe of intrinsic valence band electronic structure: Hard x-ray photoemission. <i>Applied Physics Letters</i> , 2004, 84, 4310-4312.	1.5	103
53	The XAFS beamline BL01B1 at SPring-8. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 143-145.	1.0	102
54	Evidence for Suppressed Screening on the Surface of High Temperature $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ Superconductors. <i>Physical Review Letters</i> , 2005, 95, 177002.	2.9	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.	0.6	99
56	Recoil effects of photoelectrons in a solid. Physical Review B, 2007, 75, .	1.1	99
57	An X-Ray Phase Plate Using Bragg-Case Diffraction. Japanese Journal of Applied Physics, 1991, 30, L407-L410.	0.8	98
58	Revisiting the Valence-Band and Core-Level Photoemission Spectra of NiO. Physical Review Letters, 2008, 100, 206401.	2.9	97
59	Hard X-ray Diffraction-Limited Nanofocusing with Kirkpatrick-Baez Mirrors. Japanese Journal of Applied Physics, 2005, 44, L539-L542.	0.8	95
60	Single-shot beam-position monitor for x-ray free electron laser. Review of Scientific Instruments, 2011, 82, 023108.	0.6	94
61	Saturable absorption of intense hard X-rays in iron. Nature Communications, 2014, 5, 5080.	5.8	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.	0.7	93
63	Quantitative Image Reconstruction of GaN Quantum Dots from Oversampled Diffraction Intensities Alone. Physical Review Letters, 2005, 95, 085503.	2.9	93
64	High-Resolution Multislice X-Ray Ptychography of Extended Thick Objects. Physical Review Letters, 2014, 112, 053903.	2.9	93
65	Bulk screening in core-level photoemission from Mott-Hubbard and charge-transfer systems. Physical Review B, 2005, 71, .	1.1	91
66	Single-shot three-dimensional structure determination of nanocrystals with femtosecond X-ray free-electron laser pulses. Nature Communications, 2014, 5, 4061.	5.8	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.	0.7	90
68	Photoemission evidence for a Mott-Hubbard metal-insulator transition in $\text{VO}_2$ . Physical Review B, 2008, 78, .	1.1	90
69	Elemental mapping of frozen hydrated cells with cryo-scanning X-ray fluorescence microscopy. X-Ray Spectrometry, 2010, 39, 260-266.	0.9	90
70	Compact XFEL and AMO sciences: SACLA and SCSS. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164001.	0.6	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.	0.6	85
72	$\text{Fe}_3\text{Zn}_2\text{O}_4$ thin film as tunable high Curie temperature ferromagnetic semiconductor. Applied Physics Letters, 2006, 89, 242507.	1.5	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. <i>Physical Review B</i> , 2013, 87, .	1.1	84
74	Valence Transition of $\text{YbInCu}_4$ Observed in Hard X-Ray Photoemission Spectra. <i>Physical Review Letters</i> , 2004, 93, 246404.	2.9	83
75	Electronic structures of $\text{Fe}_{3-x}\text{M}_x\text{O}_4$ ( $\text{M}=\text{Mn}, \text{Zn}$ ) spinel oxide thin films investigated by x-ray photoemission spectroscopy and x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2007, 76, .	1.1	83
76	Correlation between crystal structure and magnetism in the frustrated antiferromagnet $\text{CuFeO}_2$ under high magnetic fields. <i>Physical Review B</i> , 2007, 75, .	1.1	81
77	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. <i>Nature Photonics</i> , 2019, 13, 319-322.	15.6	81
78	Development and application of x-ray phase retarders (invited). <i>Review of Scientific Instruments</i> , 1995, 66, 1604-1609.	0.6	79
79	Dynamics of photoinduced melting of charge/orbital order in a layered manganite $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$ . <i>Physical Review B</i> , 2001, 63, .	1.1	79
80	50-nm-resolution full-field X-ray microscope without chromatic aberration using total-reflection imaging mirrors. <i>Scientific Reports</i> , 2017, 7, 46358.	1.6	78
81	A soft X-ray free-electron laser beamline at SACLA: the light source, photon beamline and experimental station. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 282-288.	1.0	78
82	Kohn Anomaly in $\text{MgB}_2$ by Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2004, 92, 197004.	2.9	77
83	Performance of a Highly Stabilized and High-resolution Beamline BL17SU for Advanced Soft X-ray Spectroscopy at SPring-8. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	74
84	Measurement of the coherence length of highly collimated X-rays from the visibility of equal-thickness fringes. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1988, 44, 496-499.	0.3	73
85	Coexistence of Strongly Mixed-Valence and Heavy-Fermion Character in $\text{SmOs}_4\text{Sb}_{12}$ Studied by Soft- and Hard-X-Ray Spectroscopy. <i>Physical Review Letters</i> , 2007, 98, 156402.	2.9	73
86	Towards high-resolution ptychographic x-ray diffraction microscopy. <i>Physical Review B</i> , 2011, 83, .	1.1	71
87	Imaging Fully Hydrated Whole Cells by Coherent X-Ray Diffraction Microscopy. <i>Physical Review Letters</i> , 2013, 110, 098103.	2.9	71
88	Surface structure analysis of $\text{Si}(111)\sqrt{3}\times\sqrt{3}-\text{Bi}$ by X-ray diffraction "Approach to the solution of the phase problem. <i>Surface Science</i> , 1987, 191, L825-L834.	0.8	69
89	Present status of high flux beamline (BL40XU) at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 674-677.	0.7	69
90	Single Shot Coherence Properties of the Free-Electron Laser SACLA in the Hard X-ray Regime. <i>Scientific Reports</i> , 2014, 4, 5234.	1.6	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.	0.7	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.	0.8	66
93	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. AIP Conference Proceedings, 2004, , .	0.3	64
94	Element Array by Scanning X-ray Fluorescence Microscopy after Cis-Diamminedichloro-Platinum(II) Treatment. Cancer Research, 2005, 65, 4998-5002.	0.4	64
95	Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN. Physical Review Letters, 2010, 104, 236404.	2.9	64
96	The prominent 5d-orbital contribution to the conduction electrons in gold. New Journal of Physics, 2010, 12, 043045.	1.2	64
97	Fabrication of elliptically figured mirror for focusing hard x rays to size less than 50nm. Review of Scientific Instruments, 2005, 76, 063708.	0.6	63
98	At-wavelength figure metrology of hard x-ray focusing mirrors. Review of Scientific Instruments, 2006, 77, 063712.	0.6	63
99	Three-Dimensional Electron Density Mapping of Shape-Controlled Nanoparticle by Focused Hard X-ray Diffraction Microscopy. Nano Letters, 2010, 10, 1922-1926.	4.5	63
100	Persistence of Covalent Bonding in Liquid Silicon Probed by Inelastic X-Ray Scattering. Physical Review Letters, 2012, 108, 067402.	2.9	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.	1.0	62
102	Second-order autocorrelation of XUV FEL pulses via time resolved two-photon single ionization of He. Optics Express, 2011, 19, 21698.	1.7	61
103	Macromolecular structures probed by combining single-shot free-electron laser diffraction with synchrotron coherent X-ray imaging. Nature Communications, 2014, 5, 3798.	5.8	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.	0.7	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.	0.6	59
106	Image reconstruction of nanostructured nonperiodic objects only from oversampled hard x-ray diffraction intensities. Physical Review B, 2003, 68, .	1.1	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, .	1.1	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.	0.8	57

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109	Recoil Effect of Photoelectrons in the Fermi Edge of Simple Metals. <i>Physical Review Letters</i> , 2008, 101, 137601.	2.9	57
110	A new cryo-EM system for single particle analysis. <i>Journal of Structural Biology</i> , 2019, 207, 40-48.	1.3	57
111	The brightest x-ray source: A very long undulator at SPring-8. <i>Review of Scientific Instruments</i> , 2002, 73, 1125-1128.	0.6	56
112	Stable operation of a self-amplified spontaneous-emission free-electron laser in the extremely ultraviolet region. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	56
113	Trace element mapping of a single cell using a hard x-ray nanobeam focused by a Kirkpatrick-Baez mirror system. <i>X-Ray Spectrometry</i> , 2009, 38, 89-94.	0.9	56
114	Pulse energy measurement at the hard x-ray laser in Japan. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	56
115	Structural Analysis of the NiSi <sub>2</sub> /(111)Si Interface by the X-Ray Standing-Wave Method. <i>Japanese Journal of Applied Physics</i> , 1985, 24, 1425-1431.	0.8	55
116	SPring-8 standard x-ray monochromators. , 1999, , .		55
117	Double Core-Hole Creation by Sequential Attosecond Photoionization. <i>Physical Review Letters</i> , 2013, 111, 043001.	2.9	55
118	A Bragg beam splitter for hard x-ray free-electron lasers. <i>Optics Express</i> , 2013, 21, 2823.	1.7	55
119	Focusing mirror for x-ray free-electron lasers. <i>Review of Scientific Instruments</i> , 2008, 79, 083104.	0.6	54
120	Visualizing the local optical response to extreme-ultraviolet radiation with a resolution of $\lambda/380$ . <i>Nature Physics</i> , 2011, 7, 705-708.	6.5	54
121	Multiphoton Double Ionization of Ar in Intense Extreme Ultraviolet Laser Fields Studied by Shot-by-Shot Photoelectron Spectroscopy. <i>Physical Review Letters</i> , 2010, 105, 133001.	2.9	53
122	Equi-lattice-spacing mapping X-ray topography. <i>Journal of Applied Crystallography</i> , 1987, 20, 344-348.	1.9	52
123	Wavefront measurement for a hard-X-ray nanobeam using single-grating interferometry. <i>Optics Express</i> , 2012, 20, 24977.	1.7	52
124	Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. <i>Optics Express</i> , 2016, 24, 9187.	1.7	52
125	Phase retrieval from exactly oversampled diffraction intensity through deconvolution. <i>Physical Review B</i> , 2007, 75, .	1.1	51
126	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. <i>New Journal of Physics</i> , 2014, 16, 123045.	1.2	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.	0.7	50
128	Construction of topography stations at SPring-8 and first observations. Journal Physics D: Applied Physics, 2001, 34, A158-A162.	1.3	50
129	Femtosecond two-photon Rabi oscillations in excited He driven by ultrashort intense laser fields. Nature Photonics, 2016, 10, 102-105.	15.6	50
130	Bulk electronic structure of $\text{Na}_{0.35}\text{CoO}_2 \cdot 1.3\text{H}_2\text{O}$ . Physical Review B, 2004, 69, .	1.1	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.	1.9	49
132	A new cryo-EM system for electron 3D crystallography by eEFD. Journal of Structural Biology, 2019, 206, 243-253.	1.3	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.	1.1	48
135	Electron correlation in the FeSe superconductor studied by bulk-sensitive photoemission spectroscopy. Physical Review B, 2010, 82, .	1.1	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.	2.9	47
138	Polarization tunability and analysis for observing magnetic effects on BL39XU at SPring-8. Journal of Synchrotron Radiation, 1999, 6, 1133-1137.	1.0	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 antiferromagnet $\text{CuFeO}_2$ . Physical Review B, 2006, 74, .	1.1	46
141	Electronic structure of $\text{RuCe}_2\text{X}_2$ . $\text{Ru} < \text{Ce} < \text{X} < 2 < 2$		

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145	Three-Dimensional Coherent X-Ray Diffraction Imaging of Molten Iron in Mantle Olivine at Nanoscale Resolution. <i>Physical Review Letters</i> , 2013, 110, 205501.	2.9	45
146	High precision goniometer system for topography and diffractometry using multiple crystal arrangement. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 246, 613-616.	0.7	44
147	A compact optical design for Bragg reflections near backscattering. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 1127-1130.	1.0	44
148	Dead-time-free ion momentum spectroscopy of multiple ionization of Xe clusters irradiated by euv free-electron laser pulses. <i>Physical Review A</i> , 2009, 79, .	1.0	44
149	Observation of Free-Electron-Laser-Induced Collective Spontaneous Emission (Superfluorescence). <i>Physical Review Letters</i> , 2011, 107, 193603.	2.9	44
150	Cryogenic cooling monochromators for the SPring-8 undulator beamlines. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 647-649.	0.7	43
151	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. <i>Scientific Reports</i> , 2016, 5, 17713.	1.6	43
152	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. <i>Scientific Reports</i> , 2018, 8, 17440.	1.6	43
153	Direct observation of picosecond melting and disintegration of metallic nanoparticles. <i>Nature Communications</i> , 2019, 10, 2411.	5.8	43
154	Tunable-wavelength production of circularly polarized X-rays with a perfect-crystal quarter-wave plate. <i>Journal of Applied Crystallography</i> , 1992, 25, 531-535.	1.9	42
155	X-ray diffractometer combining synchrotron radiation and pulsed magnetic fields up to 40 T. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 271-274.	1.0	42
156	Early commissioning of the SPring-8 beamline for high resolution inelastic X-ray scattering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 627-630.	0.7	41
157	Direct and quantitative determination of the orbital ordering in CeB <sub>6</sub> by X-ray diffraction. <i>Europhysics Letters</i> , 2004, 68, 671-677.	0.7	41
158	X-Ray Resonance in Crystal Cavities: Realization of Fabry-Perot Resonator for Hard X Rays. <i>Physical Review Letters</i> , 2005, 94, 174801.	2.9	41
159	Interference between Compton Scattering and X-Ray Parametric Down-Conversion. <i>Physical Review Letters</i> , 2007, 98, 244801.	2.9	41
160	Frustration of direct photoionization of Ar clusters in intense extreme ultraviolet pulses from a free electron laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 134019.	0.6	41
161	Upgrade of long trace profiler for characterization of high-precision X-ray mirrors at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 616, 237-240.	0.7	41
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