

Tetsuya Ishikawa

List of Publications by Year in descending order

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870
papers

26,331
citations

7568

77
h-index

12946

131
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878
all docs

878
docs citations

878
times ranked

14682
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	SPring-8 LEPS2 beamline: A facility to produce a multi-GeV photon beam via laser Compton scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1033, 166677.	1.6	8
3	Early Days of SACLA XFEL. Photonics, 2022, 9, 357.	2.0	0
4	Femtosecond X-ray Laser Reveals Intact Sea-Island Structures of Metastable Solid-State Electrolytes for Batteries. Nano Letters, 2022, 22, 4603-4607.	9.1	2
5	The new X-ray/visible microscopy MAXWELL technique for fast three-dimensional nanoimaging with isotropic resolution. Scientific Reports, 2022, 12, .	3.3	2
6	Structural Defects in Ni/Cu/Cr/Si Multilayer Nanosystem Induced by Thermal and Ion Influences. Metallofizika i Noveishie Tekhnologii, 2021, 43, 183-208.	0.5	1
7	X-ray adaptive zoom condenser utilizing an intermediate virtual focus. Optics Express, 2021, 29, 15604.	3.4	2
8	Physical and chemical imaging of adhesive interfaces with soft X-rays. Communications Materials, 2021, 2, .	6.9	6
9	High-resolution fast-tomography brain-imaging beamline at the Taiwan Photon Source. Journal of Synchrotron Radiation, 2021, 28, 1662-1668.	2.4	3
10	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
11	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
12	Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics. Science Advances, 2021, 7, eabj8552.	10.3	6
13	Linear polarization-dependent core-level photoemission spectroscopy in Yb-based valence fluctuating system. Journal of Electron Spectroscopy and Related Phenomena, 2020, 238, 146889.	1.7	1
14	Observation of the 4f ground-state symmetry in strongly correlated cubic Pr compounds probed by linearly polarized 3d core-level photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2020, 238, 146885.	1.7	2
15	Design of a liquid cell toward three-dimensional imaging of unidirectionally-aligned particles in solution using X-ray free-electron lasers. Physical Chemistry Chemical Physics, 2020, 22, 2622-2628.	2.8	3
16	Slowing down of dynamics and orientational order preceding crystallization in hard-sphere systems. Science Advances, 2020, 6, .	10.3	10
17	Micro-liquid enclosure array and its semi-automated assembling system for x-ray free-electron laser diffractive imaging of samples in solution. Review of Scientific Instruments, 2020, 91, 083706.	1.3	4
18	Development of a scanning soft X-ray spectromicroscope to investigate local electronic structures on surfaces and interfaces of advanced materials under conditions ranging from low vacuum to helium atmosphere. Journal of Synchrotron Radiation, 2020, 27, 664-674.	2.4	16

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19	XFEL coherent diffraction imaging for weakly scattering particles using heterodyne interference. AIP Advances, 2020, 10, .	1.3	9
20	Effect of barrier underlayer on diffusion and phase composition of Ni/Cu thin films under annealing. , 2020, , .		3
21	Structural Investigation of Single Specimens with a Femtosecond X-Ray Laser: Routes to Signal-to-Noise Ratio Enhancement. Physical Review Applied, 2020, 13, .	3.8	4
22	A synchrotron X-ray imaging strategy to map large animal brains. Chinese Journal of Physics, 2020, 65, 24-32.	3.9	24
23	Characterizing the intrinsic properties of individual XFEL pulses via single-particle diffraction. Journal of Synchrotron Radiation, 2020, 27, 17-24.	2.4	7
24	Viscosity-adjustable grease matrices for serial nanocrystallography. Scientific Reports, 2020, 10, 1371.	3.3	10
25	Soft X-ray Absorption Spectroscopy Probes OH ⁻ Interactions in Epoxy-Based Polymers. Journal of Physical Chemistry C, 2020, 124, 9622-9627.	3.1	9
26	Generation of an X-ray nanobeam of a free-electron laser using reflective optics with speckle interferometry. Journal of Synchrotron Radiation, 2020, 27, 883-889.	2.4	8
27	Focus characterization of an X-ray free-electron laser by intensity correlation measurement of X-ray fluorescence. Journal of Synchrotron Radiation, 2020, 27, 1366-1371.	2.4	6
28	Adaptive x-ray zoom condenser system based on concave and convex mirrors. , 2020, , .		1
29	Perfect Crystal Optics. , 2020, , 1123-1159.		1
30	Focusing Mirror for Coherent Hard X-Rays. , 2020, , 1093-1122.		0
31	Compact full-field hard x-ray microscope based on advanced Kirkpatrick-Baez mirrors. Optica, 2020, 7, 367.	9.3	7
32	X-ray microscope for imaging topological charge and orbital angular momentum distribution formed by chirality. Optics Express, 2020, 28, 24115.	3.4	5
33	Effect of Anisotropic Hybridization in YbAlB_4 by Linear Dichroism in Core-Level Hard X-Ray Photoemission Spectroscopy. Physical Review Letters, 2019, 123, 036404.	7.8	11
34	Direct observation of picosecond melting and disintegration of metallic nanoparticles. Nature Communications, 2019, 10, 2411.	12.8	43
35	Simulation of single bio particles in XFEL coherent diffraction master curve for photon counts estimation. AIP Conference Proceedings, 2019, , .	0.4	1
36	A new cryo-EM system for single particle analysis. Journal of Structural Biology, 2019, 207, 40-48.	2.8	57

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37	Critical absorbed dose of resinous adhesive material towards non-destructive chemical-state analysis using soft X-rays. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 232, 11-15.	1.7	11
38	Accelerator-based X-ray sources: synchrotron radiation, X-ray free electron lasers and beyond. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180231.	3.4	8
39	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. <i>Nature Photonics</i> , 2019, 13, 319-322.	31.4	81
40	A new cryo-EM system for electron 3D crystallography by eFD. <i>Journal of Structural Biology</i> , 2019, 206, 243-253.	2.8	49
41	Synchrotron radiation research: Retrospective view and prospective considerations. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
42	A middle energy-bandwidth X-ray monochromator for high-flux synchrotron diffraction: revisiting asymmetrically cut silicon crystals. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 750-755.	2.4	25
43	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
44	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
45	Comparing the spatial coherence of the natural and focused X-rays from a free electron laser. <i>Optics Express</i> , 2019, 27, 19573.	3.4	7
46	Quantum valence criticality in a correlated metal. <i>Science Advances</i> , 2018, 4, eaao3547.	10.3	28
47	In Situ Characterization of XFEL Beam Intensity Distribution and Focusability by High-Resolution LiF Crystal Detector. <i>Springer Proceedings in Physics</i> , 2018, , 109-115.	0.2	0
48	Rare-Earth Fourth-Order Multipole Moment in Cubic ErCo ₂ Probed by Linear Dichroism in Core-Level Photoemission. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 033710.	1.6	4
49	Synchrotron analysis of structure transformations in V and V/Ag thin films. <i>Vacuum</i> , 2018, 150, 186-195.	3.5	4
50	Free-electron-laser coherent diffraction images of individual drug-carrying liposome particles in solution. <i>Nanoscale</i> , 2018, 10, 2820-2824.	5.6	11
51	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
52	Absolute laser-intensity measurement and online monitor calibration using a calorimeter at a soft X-ray free-electron laser beamline in SACLA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 894, 107-110.	1.6	4
53	Polarization-dependent X-ray photoemission spectroscopy for High- T_c cuprate superconductors. <i>Physica B: Condensed Matter</i> , 2018, 536, 843-846.	2.7	2
54	Superradiance of an ensemble of nuclei excited by a free electron laser. <i>Nature Physics</i> , 2018, 14, 261-264.	16.7	39

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55	High-Resolution Full-Field X-ray Microscope for 20-keV X-rays with Multilayer Imaging Mirrors. <i>Microscopy and Microanalysis</i> , 2018, 24, 288-289.	0.4	2
56	Reflective Imaging Optics Using Concave and Convex Mirrors for a Compact and Achromatic Full-field X-ray Microscope.. <i>Microscopy and Microanalysis</i> , 2018, 24, 276-277.	0.4	2
57	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. <i>Scientific Reports</i> , 2018, 8, 17440.	3.3	43
58	Stabilization of X-ray Beamline Optics towards Tens of Nanoradian Levels at SPring-8/SACLA. <i>Synchrotron Radiation News</i> , 2018, 31, 33-37.	0.8	1
59	Revising the 4π symmetry in CeCu_2 : Soft x-ray absorption and hard x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2018, 98, .	3.2	9
60	Single-shot 3D coherent diffractive imaging of core-shell nanoparticles with elemental specificity. <i>Scientific Reports</i> , 2018, 8, 8284.	3.3	10
61	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
62	Necessary Experimental Conditions for Single-Shot Diffraction Imaging of DNA-Based Structures with X-ray Free-Electron Lasers. <i>ACS Nano</i> , 2018, 12, 7509-7518.	14.6	24
63	Systematic-error-free wavefront measurement using an X-ray single-grating interferometer. <i>Review of Scientific Instruments</i> , 2018, 89, 043106.	1.3	13
64	Diffusion of Au and its influence on the coercivity of [FePt/Au/FePt] 2x thin films during annealing in different atmospheres. <i>Thin Solid Films</i> , 2018, 658, 12-21.	1.8	2
65	Nonlinear Spectroscopy with X-Ray Two-Photon Absorption in Metallic Copper. <i>Physical Review Letters</i> , 2018, 121, 083901.	7.8	38
66	Development of new diagnostics based on LiF detector for pump-probe experiments. <i>Matter and Radiation at Extremes</i> , 2018, 3, 197-206.	3.9	8
67	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.	2.4	78
68	Dynamics of soft nanoparticle suspensions at hard X-ray FEL sources below the radiation-damage threshold. <i>IUCr</i> , 2018, 5, 801-807.	2.2	18
69	Hiromichi Kamitsubo (1933–2017). <i>Journal of Synchrotron Radiation</i> , 2018, 25, 304-305.	2.4	0
70	Structure of Vanadium Films on $\text{SiO}_2(001)$, $\text{MgO}(100)$, $\text{Al}_2\text{O}_3(0001)$, $\text{SrTiO}_3(100)$ Substrates and Features of Their Thermal Oxidation. <i>Metallofizika i Noveishie Tekhnologii</i> , 2018, 40, 777-794.	0.5	1
71	Generation of apodized X-ray illumination and its application to scanning and diffraction microscopy. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 142-149.	2.4	10
72	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. <i>Nature</i> , 2017, 543, 131-135.	27.8	515

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73	Coherent X-ray beam metrology using 2D high-resolution Fresnel-diffraction analysis. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 196-204.	2.4	10
74	Linear dichroism in 3d core-level and 4f valence-band photoemission spectra of strongly correlated rare-earth compounds. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 61-65.	1.7	2
75	Hole doping effect on the electronic structure of layered oxypnictide LaOMnAs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 58-60.	1.7	2
76	An accumulation mode of a room-temperature calorimeter for total pulse energy measurement of X-ray FELs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 220, 3-5.	1.7	0
77	On the size of the secondary electron cloud in crystals irradiated by hard X-ray photons. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	13
78	Search for Two-Photon Interaction with Axionlike Particles Using High-Repetition Pulsed Magnets and Synchrotron X Rays. <i>Physical Review Letters</i> , 2017, 118, 071803.	7.8	10
79	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
80	Direct observation of heterogeneous valence state in Yb-based quasicrystalline approximants. <i>Physical Review B</i> , 2017, 96, .	3.2	6
81	Visualization of a Mammalian Mitochondrion by Coherent X-ray Diffractive Imaging. <i>Scientific Reports</i> , 2017, 7, 1850.	3.3	12
82	Ellipsoidal mirror for two-dimensional 100-nm focusing in hard X-ray region. <i>Scientific Reports</i> , 2017, 7, 16408.	3.3	16
83	Linear Dichroism in Angle-Resolved Core-Level Photoemission Spectra Reflecting 4 <i>f</i> Ground-State Symmetry of Strongly Correlated Cubic Pr Compounds. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 123703.	1.6	14
84	Status of the SACLA Facility. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 604.	2.5	29
85	Dynamic fracture of tantalum under extreme tensile stress. <i>Science Advances</i> , 2017, 3, e1602705.	10.3	41
86	Compact bolometric radiometer for free-electron lasers in a wavelength range from extreme-ultraviolet to x-rays. <i>Optics Letters</i> , 2017, 42, 4776.	3.3	7
87	Development of concave-convex imaging mirror system for a compact and achromatic full-field x-ray microscope. , 2017, , .		0
88	X-ray microfocusing with off-axis ellipsoidal mirror. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
89	SPring-8 BL36XU: Catalytic Reaction Dynamics for Fuel Cells. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012142.	0.4	22
90	Unidirectional x-ray output from a crystal waveguide affected by Berry's phase. <i>Optics Express</i> , 2016, 24, 24544.	3.4	1

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91	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. Scientific Reports, 2016, 5, 17713.	3.3	43
92	Single-pulse enhanced coherent diffraction imaging of bacteria with an X-ray free-electron laser. Scientific Reports, 2016, 6, 34008.	3.3	22
93	Fixed target single-shot imaging of nanostructures using thin solid membranes at SACLA. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 034008.	1.5	17
94	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
95	An experiment of X-ray photon-photon elastic scattering with a Laue-case beam collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 454-457.	4.1	17
96	Development of speckle-free channel-cut crystal optics using plasma chemical vaporization machining for coherent x-ray applications. Review of Scientific Instruments, 2016, 87, 063118.	1.3	14
97	Nucleosomal arrays self-assemble into supramolecular globular structures lacking 30-nm fibers. EMBO Journal, 2016, 35, 1115-1132.	7.8	164
98	Polarized hard X-ray photoemission system with micro-positioning technique for probing ground-state symmetry of strongly correlated materials. Journal of Synchrotron Radiation, 2016, 23, 735-742.	2.4	22
99	Electronic structure of LaTe and CeTe. Journal of Electron Spectroscopy and Related Phenomena, 2016, 208, 116-120.	1.7	1
100	Simulation and Experimental Study of Wavefront Measurement Accuracy of the Pencil-Beam Method. Synchrotron Radiation News, 2016, 29, 32-36.	0.8	7
101	Advancement of Hard X-ray Nano-focusing Ellipsoidal Mirror at SPring-8. Synchrotron Radiation News, 2016, 29, 27-31.	0.8	2
102	Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. Optics Express, 2016, 24, 9187.	3.4	52
103	Time-resolved HAXPES using a microfocused XFEL beam: From vacuum space-charge effects to intrinsic charge-carrier recombination dynamics. Scientific Reports, 2016, 6, 35087.	3.3	21
104	Size-changeable x-ray beam collimation using an adaptive x-ray optical system based on four deformable mirrors. , 2016, , .		3
105	Indirect monitoring shot-to-shot shock waves strength reproducibility during pump-probe experiments. Journal of Applied Physics, 2016, 120, .	2.5	5
106	Determination of x-ray free electron laser power using a room-temperature calorimeter. Metrologia, 2016, 53, 98-102.	1.2	4
107	Femtosecond two-photon Rabi oscillations in excited He driven by ultrashort intense laser fields. Nature Photonics, 2016, 10, 102-105.	31.4	50
108	Focusing Mirror for Coherent Hard X-Rays. , 2016, , 927-956.		1

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109	Perfect Crystal Optics. , 2016, , 957-992.		1
110	Pulse-by-pulse multi-beam-line operation for x-ray free-electron lasers. Physical Review Accelerators and Beams, 2016, 19, .	1.6	24
111	X-ray collimation by the parabolic cylinder mirror in SPring-8/BL29XUL. Journal of Synchrotron Radiation, 2016, 23, 158-162.	2.4	4
112	Inline spectrometer for shot-by-shot determination of pulse energies of a two-color X-ray free-electron laser. Journal of Synchrotron Radiation, 2016, 23, 331-333.	2.4	7
113	Development of Accelerator-Based Compact EUV and X-ray Sources in Japan. , 2016, , .		0
114	Evidence for $\hat{\Gamma}_8$ Ground-State Symmetry of Cubic YbB12 Probed by Linear Dichroism in Core-Level Photoemission. Journal of the Physical Society of Japan, 2015, 84, 073705.	1.6	23
115	Temperature Dependence of Magnetically Active Charge Excitations in Magnetite across the Verwey Transition. Physical Review Letters, 2015, 115, 256405.	7.8	30
116	Sequential Single Shot X-ray Photon Correlation Spectroscopy at the SACLA Free Electron Laser. Scientific Reports, 2015, 5, 17193.	3.3	30
117	Synchrotron x-ray imaging of pulmonary alveoli in respiration in live intact mice. Scientific Reports, 2015, 5, 8760.	3.3	36
118	Room-temperature calorimeter for x-ray free-electron lasers. Review of Scientific Instruments, 2015, 86, 093104.	1.3	14
119	Four-dimensional visualization of rising microbubbles. Scientific Reports, 2015, 4, 5083.	3.3	6
120	Extending the potential of x-ray free-electron lasers to industrial applications—“an initiatory attempt at coherent diffractive imaging on car-related nanomaterials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 244008.	1.5	6
121	Damage threshold of platinum/carbon multilayers under hard X-ray free-electron laser irradiation. Optics Express, 2015, 23, 29032.	3.4	14
122	Development of achromatic full-field hard x-ray microscopy with two monolithic imaging mirrors. Proceedings of SPIE, 2015, , .	0.8	6
123	Electronic Structure Evolution across the Peierls Metal-Insulator Transition in a Correlated Ferromagnet. Physical Review X, 2015, 5, .	8.9	10
124	Direct observation of bond formation in solution with femtosecond X-ray scattering. Nature, 2015, 518, 385-389.	27.8	207
125	Overview of the SACLA facility. Journal of Synchrotron Radiation, 2015, 22, 477-484.	2.4	118
126	Quantitative Imaging of Single Unstained Magnetotactic Bacteria by Coherent X-ray Diffraction Microscopy. Analytical Chemistry, 2015, 87, 5849-5853.	6.5	16

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127	Nanofocusing of X-ray free-electron lasers by grazing-incidence reflective optics. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 592-598.	2.4	17
128	Stabilization of a high-order harmonic generation seeded extreme ultraviolet free electron laser by time-synchronization control with electro-optic sampling. <i>High Power Laser Science and Engineering</i> , 2015, 3, .	4.6	5
129	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
130	Beyond crystallography: Diffractive imaging using coherent x-ray light sources. <i>Science</i> , 2015, 348, 530-535.	12.6	596
131	Visualizing the Mixed Bonding Properties of Liquid Boron with High-Resolution X-Ray Compton Scattering. <i>Physical Review Letters</i> , 2015, 114, 177401.	7.8	13
132	Achromatic and high-resolution full-field X-ray microscopy based on total-reflection mirrors. <i>Optics Express</i> , 2015, 23, 9746.	3.4	17
133	Change in the crystalline structure during the phase transition of the palladium-hydrogen system. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24783-24790.	2.8	14
134	Atomic inner-shell laser at 1.5-Å wavelength pumped by an X-ray free-electron laser. <i>Nature</i> , 2015, 524, 446-449.	27.8	133
135	Coulomb frustration of the multiphoton ionization of metallic clusters under intense EUV FEL evidenced by ion spectrometry. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 234001.	1.5	1
136	Dendritic planarity of Purkinje cells is independent of Reelin signaling. <i>Brain Structure and Function</i> , 2015, 220, 2263-2273.	2.3	6
137	Perfect Crystal Optics. , 2015, , 1-32.		0
138	Focusing Mirror for Coherent Hard X-Rays. , 2015, , 1-26.		1
139	Determination of Absolute Cross-Sections of Nonresonant EUV-UV Two-Color Two-Photon Ionization of He. <i>Springer Proceedings in Physics</i> , 2015, , 109-112.	0.2	0
140	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. <i>Nature Communications</i> , 2014, 5, 3052.	12.8	183
141	Time-resolved HAXPES at SACLA: probe and pump pulse-induced space-charge effects. <i>New Journal of Physics</i> , 2014, 16, 123045.	2.9	51
142	X-ray STM: Nanoscale elemental analysis & Observation of atomic track. <i>Microscopy (Oxford, England)</i> , 2014, 63, i14.2-i15.	1.5	1
143	Optics for coherent X-ray applications. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 976-985.	2.4	41
144	Five-photon sequential double ionization of He in intense extreme-ultraviolet free-electron laser fields. <i>Physical Review A</i> , 2014, 90, .	2.5	7

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145	X-Ray Second Harmonic Generation. <i>Physical Review Letters</i> , 2014, 112, 163901.	7.8	116
146	Bulk nature of layered perovskite iridates beyond the Mott scenario: An approach from a bulk-sensitive photoemission study. <i>Physical Review B</i> , 2014, 89, .	3.2	24
147	High-Resolution Multislice X-Ray Ptychography of Extended Thick Objects. <i>Physical Review Letters</i> , 2014, 112, 053903.	7.8	93
148	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
149	Perovskite fluoride crystals as light emitting materials in vacuum ultraviolet region. <i>Optical Materials</i> , 2014, 36, 769-772.	3.6	27
150	Search for photon-photon elastic scattering in the X-ray region. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 732, 356-359.	4.1	27
151	Optical property of Ce ³⁺ -doped lutetium lithium fluoride for the short-wavelength device application. <i>Optical Materials</i> , 2014, 36, 1963-1965.	3.6	1
152	Saturable absorption of intense hard X-rays in iron. <i>Nature Communications</i> , 2014, 5, 5080.	12.8	94
153	Generation of 1020 W cm ⁻² hard X-ray laser pulses with two-stage reflective focusing system. <i>Nature Communications</i> , 2014, 5, 3539.	12.8	124
154	Polarization control of an X-ray free-electron laser with a diamond phase retarder. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 466-472.	2.4	29
155	Analytic 3D Imaging of Mammalian Nucleus at Nanoscale Using Coherent X-Rays and Optical Fluorescence Microscopy. <i>Biophysical Journal</i> , 2014, 107, 1074-1081.	0.5	24
156	Single Shot Coherence Properties of the Free-Electron Laser SACLA in the Hard X-ray Regime. <i>Scientific Reports</i> , 2014, 4, 5234.	3.3	69
157	Determination of damage-free crystal structure of an X-ray-sensitive protein using an XFEL. <i>Nature Methods</i> , 2014, 11, 734-736.	19.0	237
158	Electronic structure of CeCuAs ₂ . <i>Physical Review B</i> , 2014, 89, .	3.2	10
159	X-ray two-photon absorption competing against single and sequential multiphoton processes. <i>Nature Photonics</i> , 2014, 8, 313-316.	31.4	164
160	Time-Resolved Coherent Diffraction of Ultrafast Structural Dynamics in a Single Nanowire. <i>Nano Letters</i> , 2014, 14, 2413-2418.	9.1	20
161	Single-shot three-dimensional structure determination of nanocrystals with femtosecond X-ray free-electron laser pulses. <i>Nature Communications</i> , 2014, 5, 4061.	12.8	91
162	Multiple application X-ray imaging chamber for single-shot diffraction experiments with femtosecond X-ray laser pulses. <i>Journal of Applied Crystallography</i> , 2014, 47, 188-197.	4.5	49

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163	Development of achromatic full-field hard x-ray microscopy and its application to x-ray absorption near edge structure spectromicroscopy. Proceedings of SPIE, 2014, , .	0.8	16
164	Probing Strongly Correlated $4f$ -Orbital Symmetry of the Ground State in Yb Compounds by Linear Dichroism in Core-Level Photoemission. Journal of the Physical Society of Japan, 2014, 83, 123702.	1.6	24
165	Electron Dynamics Probed by Time-Resolved Hard X-ray Photoelectron Spectroscopy. Transactions of the Materials Research Society of Japan, 2014, 39, 469-473.	0.2	7
166	Development of a one-dimensional two-stage focusing system with two deformable mirrors. , 2014, , .		1
167	Development of split-delay x-ray optics using Si(220) crystals at SACLA. Proceedings of SPIE, 2014, , .	0.8	10
168	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. Journal of Synchrotron Radiation, 2014, 21, 183-192.	2.4	11
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