

Kensuke Tono

List of Publications by Year in descending order

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138
papers

8,078
citations

66343

42
h-index

51608

86
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143
all docs

143
docs citations

143
times ranked

6206
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.	31.4	1,542
2	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
3	A three-dimensional movie of structural changes in bacteriorhodopsin. <i>Science</i> , 2016, 354, 1552-1557.	12.6	350
4	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. <i>Science</i> , 2019, 366, 334-338.	12.6	248
5	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
6	Focusing of X-ray free-electron laser pulses with reflective optics. <i>Nature Photonics</i> , 2013, 7, 43-47.	31.4	234
7	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.	2.9	230
8	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389.	27.8	207
9	Grease matrix as a versatile carrier of proteins for serial crystallography. <i>Nature Methods</i> , 2015, 12, 61-63.	19.0	193
10	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. <i>Nature Communications</i> , 2014, 5, 3052.	12.8	183
11	Two-colour hard X-ray free-electron laser with wide tunability. <i>Nature Communications</i> , 2013, 4, 2919.	12.8	172
12	Determination of the Pulse Duration of an X-Ray Free Electron Laser Using Highly Resolved Single-Shot Spectra. <i>Physical Review Letters</i> , 2012, 109, 144801.	7.8	162
13	Untangling the sequence of events during the S ₂ → S ₃ transition in photosystem II and implications for the water oxidation mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12624-12635.	7.1	149
14	Deep Inner-Shell Multiphoton Ionization by Intense X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2013, 110, 173005.	7.8	136
15	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
16	X-Ray Second Harmonic Generation. <i>Physical Review Letters</i> , 2014, 112, 163901.	7.8	116
17	Single-shot beam-position monitor for x-ray free electron laser. <i>Review of Scientific Instruments</i> , 2011, 82, 023108.	1.3	94
18	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. <i>Nature Photonics</i> , 2019, 13, 319-322.	31.4	81

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19	Diverse application platform for hard X-ray diffraction in SACLA (DAPHNIS): application to serial protein crystallography using an X-ray free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 532-537.	2.4	80
20	Observation of femtosecond X-ray interactions with matter using an X-ray "X-ray pump" probe scheme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1492-1497.	7.1	80
21	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
22	Data processing pipeline for serial femtosecond crystallography at SACLA. <i>Journal of Applied Crystallography</i> , 2016, 49, 1035-1041.	4.5	76
23	Hydroxyethyl cellulose matrix applied to serial crystallography. <i>Scientific Reports</i> , 2017, 7, 703.	3.3	74
24	Capturing an initial intermediate during the P450 _{nor} enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	12.8	74
25	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
26	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. <i>Science Advances</i> , 2017, 3, e1603042.	10.3	68
27	Dose-resolved serial synchrotron and XFEL structures of radiation-sensitive metalloproteins. <i>IUCr</i> , 2019, 6, 543-551.	2.2	65
28	XFEL structures of the influenza M2 proton channel: Room temperature water networks and insights into proton conduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13357-13362.	7.1	64
29	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
30	Nanoplasma Formation by High Intensity Hard X-rays. <i>Scientific Reports</i> , 2015, 5, 10977.	3.3	60
31	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. <i>Nature Communications</i> , 2020, 11, 741.	12.8	56
32	Double Core-Hole Creation by Sequential Attosecond Photoionization. <i>Physical Review Letters</i> , 2013, 111, 043001.	7.8	55
33	A Bragg beam splitter for hard x-ray free-electron lasers. <i>Optics Express</i> , 2013, 21, 2823.	3.4	55
34	Crystal Structures of Human Orexin 2 Receptor Bound to the Subtype-Selective Antagonist EMPA. <i>Structure</i> , 2018, 26, 7-19.e5.	3.3	55
35	An isomorphous replacement method for efficient de novo phasing for serial femtosecond crystallography. <i>Scientific Reports</i> , 2015, 5, 14017.	3.3	54
36	Toward G protein-coupled receptor structure-based drug design using X-ray lasers. <i>IUCr</i> , 2019, 6, 1106-1119.	2.2	53

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37	Wavelength-tunable split-and-delay optical system for hard X-ray free-electron lasers. <i>Optics Express</i> , 2016, 24, 9187.	3.4	52
38	Native sulfur/chlorine SAD phasing for serial femtosecond crystallography. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2519-2525.	2.5	51
39	Crystallography on a chip “without the chip: sheet-on-sheet sandwich. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1000-1007.	2.3	51
40	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
41	Structure of the dopamine D2 receptor in complex with the antipsychotic drug spiperone. <i>Nature Communications</i> , 2020, 11, 6442.	12.8	47
42	Oil-free hyaluronic acid matrix for serial femtosecond crystallography. <i>Scientific Reports</i> , 2016, 6, 24484.	3.3	46
43	3D visualization of XFEL beam focusing properties using LiF crystal X-ray detector. <i>Scientific Reports</i> , 2016, 5, 17713.	3.3	43
44	Membrane protein structure determination by SAD, SIR, or SIRAS phasing in serial femtosecond crystallography using an iododetergent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13039-13044.	7.1	43
45	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. <i>Scientific Reports</i> , 2018, 8, 17440.	3.3	43
46	Direct observation of picosecond melting and disintegration of metallic nanoparticles. <i>Nature Communications</i> , 2019, 10, 2411.	12.8	43
47	High-viscosity sample-injection device for serial femtosecond crystallography at atmospheric pressure. <i>Journal of Applied Crystallography</i> , 2019, 52, 1280-1288.	4.5	43
48	High-Resolution XFEL Structure of the Soluble Methane Monooxygenase Hydroxylase Complex with its Regulatory Component at Ambient Temperature in Two Oxidation States. <i>Journal of the American Chemical Society</i> , 2020, 142, 14249-14266.	13.7	41
49	Time-resolved serial femtosecond crystallography reveals early structural changes in channelrhodopsin. <i>ELife</i> , 2021, 10, .	6.0	41
50	Dynamic fracture of tantalum under extreme tensile stress. <i>Science Advances</i> , 2017, 3, e1602705.	10.3	41
51	Superradiance of an ensemble of nuclei excited by a free electron laser. <i>Nature Physics</i> , 2018, 14, 261-264.	16.7	39
52	High-throughput structures of protein-ligand complexes at room temperature using serial femtosecond crystallography. <i>IUCr</i> , 2019, 6, 1074-1085.	2.2	36
53	Serial femtosecond crystallography structure of cytochrome c oxidase at room temperature. <i>Scientific Reports</i> , 2017, 7, 4518.	3.3	34
54	Structural basis for light control of cell development revealed by crystal structures of a myxobacterial phytochrome. <i>IUCr</i> , 2018, 5, 619-634.	2.2	33

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55	Multiple-beamline operation of SACLA. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 595-602.	2.4	32
56	Characterization of temporal coherence of hard X-ray free-electron laser pulses with single-shot interferograms. <i>IUCr</i> , 2017, 4, 728-733.	2.2	32
57	Comparing serial X-ray crystallography and microcrystal electron diffraction (MicroED) as methods for routine structure determination from small macromolecular crystals. <i>IUCr</i> , 2020, 7, 306-323.	2.2	32
58	Measurement of the X-ray Spectrum of a Free Electron Laser with a Wide-Range High-Resolution Single-Shot Spectrometer. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 584.	2.5	31
59	High-resolution crystal structures of transient intermediates in the phytochrome photocycle. <i>Structure</i> , 2021, 29, 743-754.e4.	3.3	31
60	Status of the SACLA Facility. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 604.	2.5	29
61	Element Selectivity in Second-Harmonic Generation of GaFeO_3 by a Soft-X-Ray Free-Electron Laser. <i>Physical Review Letters</i> , 2018, 120, 223902.	7.8	29
62	Multi-wavelength anomalous diffraction de novo phasing using a two-colour X-ray free-electron laser with wide tunability. <i>Nature Communications</i> , 2017, 8, 1170.	12.8	28
63	Nanosecond pump-probe device for time-resolved serial femtosecond crystallography developed at SACLA. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1086-1091.	2.4	28
64	Superfluorescence, Free-Induction Decay, and Four-Wave Mixing: Propagation of Free-Electron Laser Pulses through a Dense Sample of Helium Ions. <i>Physical Review Letters</i> , 2018, 121, 263201.	7.8	27
65	X-ray Hanbury Brown-Twiss interferometry for determination of ultrashort electron-bunch duration. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	27
66	Redox-coupled structural changes in nitrite reductase revealed by serial femtosecond and microfocus crystallography. <i>Journal of Biochemistry</i> , 2016, 159, 527-538.	1.7	26
67	Damage threshold of coating materials on x-ray mirror for x-ray free electron laser. <i>Review of Scientific Instruments</i> , 2016, 87, 051801.	1.3	25
68	Performance of a hard X-ray split-and-delay optical system with a wavefront division. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 20-25.	2.4	25
69	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
70	Capturing structural changes of the S_1 to S_2 transition of photosystem II using time-resolved serial femtosecond crystallography. <i>IUCr</i> , 2021, 8, 431-443.	2.2	24
71	Experimental phase determination with selenomethionine or mercury-derivatization in serial femtosecond crystallography. <i>IUCr</i> , 2017, 4, 639-647.	2.2	24
72	Serial crystallography captures dynamic control of sequential electron and proton transfer events in a flavoenzyme. <i>Nature Chemistry</i> , 2022, 14, 677-685.	13.6	24

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73	X-ray free-electron laser studies reveal correlated motion during isopenicillin <i>N</i> synthase catalysis. <i>Science Advances</i> , 2021, 7, .	10.3	23
74	Intense sub-micrometre focusing of soft X-ray free-electron laser beyond 1016 Wâ€...cmâ ² with an ellipsoidal mirror. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1406-1411.	2.4	23
75	Single-pulse enhanced coherent diffraction imaging of bacteria with an X-ray free-electron laser. <i>Scientific Reports</i> , 2016, 6, 34008.	3.3	22
76	Angular correlations of photons from solution diffraction at a free-electron laser encode molecular structure. <i>IUCr</i> , 2016, 3, 420-429.	2.2	20
77	Beamline mirrors and monochromator for X-ray free electron laser of SACLA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 710, 139-142.	1.6	19
78	Time-interleaved multienergy acceleration for an x-ray free-electron laser facility. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	19
79	High-resolution crystal structures of a myxobacterial phytochrome at cryo and room temperatures. <i>Structural Dynamics</i> , 2019, 6, 054701.	2.3	19
80	Radiation-Induced Chemical Dynamics in Ar Clusters Exposed to Strong X-Ray Pulses. <i>Physical Review Letters</i> , 2018, 120, 223201.	7.8	18
81	XFEL Crystal Structures of Peroxidase Compound II. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14578-14585.	13.8	18
82	Characterizing transverse coherence of an ultra-intense focused X-ray free-electron laser by an extended Young's experiment. <i>IUCr</i> , 2015, 2, 620-626.	2.2	18
83	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
84	Fixed target single-shot imaging of nanostructures using thin solid membranes at SACLA. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 034008.	1.5	17
85	Nanofocusing Optics for an X-Ray Free-Electron Laser Generating an Extreme Intensity of 100 EW/cm ² Using Total Reflection Mirrors. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2611.	2.5	17
86	Extreme Ultraviolet Second Harmonic Generation Spectroscopy in a Polar Metal. <i>Nano Letters</i> , 2021, 21, 6095-6101.	9.1	17
87	Following the Birth of a Nanoplasma Produced by an Ultrashort Hard-X-Ray Laser in Xenon Clusters. <i>Physical Review X</i> , 2018, 8, .	8.9	16
88	Development of an Experimental Platform for Combinative Use of an XFEL and a High-Power Nanosecond Laser. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2224.	2.5	16
89	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from LiNbO_3 . <i>Physical Review Letters</i> , 2021, 127, 237402.	7.8	15
90	Room-temperature calorimeter for x-ray free-electron lasers. <i>Review of Scientific Instruments</i> , 2015, 86, 093104.	1.3	14

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91	Development of speckle-free channel-cut crystal optics using plasma chemical vaporization machining for coherent x-ray applications. <i>Review of Scientific Instruments</i> , 2016, 87, 063118.	1.3	14
92	Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields. <i>Physical Review Letters</i> , 2019, 123, 123201.	7.8	14
93	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
94	Systematic-error-free wavefront measurement using an X-ray single-grating interferometer. <i>Review of Scientific Instruments</i> , 2018, 89, 043106.	1.3	13
95	Ultrafast anisotropic disordering in graphite driven by intense hard X-ray pulses. <i>High Energy Density Physics</i> , 2019, 32, 63-69.	1.5	13
96	Full-field microscope with twin Wolter mirrors for soft X-ray free-electron lasers. <i>Optics Express</i> , 2019, 27, 33889.	3.4	12
97	Conformational alterations in unidirectional ion transport of a light-driven chloride pump revealed using X-ray free electron lasers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
98	Pump-Probe Time-Resolved Serial Femtosecond Crystallography at SACLA: Current Status and Data Collection Strategies. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5505.	2.5	10
99	Slowing down of dynamics and orientational order preceding crystallization in hard-sphere systems. <i>Science Advances</i> , 2020, 6, .	10.3	10
100	Viscosity-adjustable grease matrices for serial nanocrystallography. <i>Scientific Reports</i> , 2020, 10, 1371.	3.3	10
101	Using Diffuse Scattering to Observe X-Ray-Driven Nonthermal Melting. <i>Physical Review Letters</i> , 2021, 126, 015703.	7.8	10
102	Development of ultrafast pump and probe experimental system at SACLA. <i>Journal of Physics: Conference Series</i> , 2013, 425, 092009.	0.4	8
103	Femtosecond resonant magneto-optical Kerr effect measurement on an ultrathin magnetic film in a soft X-ray free electron laser. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 09TD02.	1.5	8
104	Generation of an X-ray nanobeam of a free-electron laser using reflective optics with speckle interferometry. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 883-889.	2.4	8
105	Protein-ligand complex structure from serial femtosecond crystallography using soaked thermolysin microcrystals and comparison with structures from synchrotron radiation. <i>Acta Crystallographica Section D: Structural Biology</i> , 2017, 73, 702-709.	2.3	8
106	Separating Non-linear Optical Signals of a Sample from High Harmonic Radiation in a Soft X-ray Free Electron Laser. <i>E-Journal of Surface Science and Nanotechnology</i> , 2022, 20, 31-35.	0.4	8
107	Hard x-ray intensity autocorrelation using direct two-photon absorption. <i>Physical Review Research</i> , 2022, 4, .	3.6	8
108	Generating 77 T using a portable pulse magnet for single-shot quantum beam experiments. <i>Applied Physics Letters</i> , 2022, 120, 142403.	3.3	8

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109	Damage study of optical substrates using 1- μ m-focusing beam of hard X-ray free-electron laser. Journal of Physics: Conference Series, 2013, 463, 012043.	0.4	7
110	Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence. Physical Review A, 2020, 101, .	2.5	7
111	Characterizing the intrinsic properties of individual XFEL pulses via single-particle diffraction. Journal of Synchrotron Radiation, 2020, 27, 17-24.	2.4	7
112	Suppression of thermal nanoplasma emission in clusters strongly ionized by hard x-rays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 044001.	1.5	7
113	Comparing the spatial coherence of the natural and focused X-rays from a free electron laser. Optics Express, 2019, 27, 19573.	3.4	7
114	Compact bolometric radiometer for free-electron lasers in a wavelength range from extreme-ultraviolet to x-rays. Optics Letters, 2017, 42, 4776.	3.3	7
115	Crystallization kinetics of atomic crystals revealed by a single-shot and single-particle X-ray diffraction experiment. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
116	Lipidic cubic phase serial femtosecond crystallography structure of a photosynthetic reaction centre. Acta Crystallographica Section D: Structural Biology, 2022, 78, 698-708.	2.3	7
117	Scanning magneto-optical Kerr effect (MOKE) measurement with element-selectivity by using a soft x-ray free-electron laser and an ellipsoidal mirror. Applied Physics Letters, 2020, 117, .	3.3	6
118	Refinement for single-nanoparticle structure determination from low-quality single-shot coherent diffraction data. IUCr, 2020, 7, 10-17.	2.2	6
119	Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics. Science Advances, 2021, 7, eabj8552.	10.3	6
120	Excited-state intermediates in a designer protein encoding a phototrigger caught by an X-ray free-electron laser. Nature Chemistry, 2022, 14, 1054-1060.	13.6	6
121	Electron spectroscopic study of nanoplasma formation triggered by intense soft x-ray pulses. Journal of Chemical Physics, 2019, 151, 184305.	3.0	5
122	Multi-particle momentum correlations extracted using covariance methods on multiple-ionization of diiodomethane molecules by soft-X-ray free-electron laser pulses. Physical Chemistry Chemical Physics, 2020, 22, 2648-2659.	2.8	5
123	Ellipsometer Equipped with Multiple Mirrors for Element-selective Soft X-ray Experiments. E-Journal of Surface Science and Nanotechnology, 2020, 18, 231-234.	0.4	5
124	Absolute laser-intensity measurement and online monitor calibration using a calorimeter at a soft X-ray free-electron laser beamline in SACLA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 894, 107-110.	1.6	4
125	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
126	Single shot x-ray diffractometry in SACLA with pulsed magnetic fields up to 16 T. Physical Review Research, 2020, 2, .	3.6	4

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127	Characterizing crystalline defects in single nanoparticles from angular correlations of single-shot diffracted X-rays. IUCrJ, 2020, 7, 276-286.	2.2	4
128	An optical design of twin Wolter mirrors for focusing and imaging experiments with soft X-ray free electron lasers. , 2019, , .		4
129	Overview of optics, photon diagnostics and experimental instruments at SACLA: development, operation and scientific applications. , 2017, , .		3
130	Polarization control with an X-ray phase retarder for high-time-resolution pump-probe experiments at SACLA. Journal of Synchrotron Radiation, 2019, 26, 1139-1143.	2.4	3
131	Single-shot spectrometer using diamond microcrystals for X-ray free-electron laser pulses. Journal of Synchrotron Radiation, 2022, 29, 862-865.	2.4	3
132	Diverse Application Platform for Hard X-ray Diffraction in SACLA (DAPHNIS). Synchrotron Radiation News, 2017, 30, 12-15.	0.8	2
133	Multi-Beamline Operation Expands Research Opportunity at SACLA. Synchrotron Radiation News, 2017, 30, 11-16.	0.8	2
134	Microcrystal preparation for serial femtosecond X-ray crystallography of bacterial copper amine oxidase. Acta Crystallographica Section F, Structural Biology Communications, 2021, 77, 356-363.	0.8	2
135	Crystal structure of CmABCB1 multi-drug exporter in lipidic mesophase revealed by LCP-SFX. IUCrJ, 2022, 9, 134-145.	2.2	2
136	Evaluation of Pulse Duration of the Soft X-ray Free Electron Laser at SACLA BL1 with Single-Shot Spectrometry. , 2018, , .		0
137	XFEL Crystal Structures of Peroxidase Compound II. Angewandte Chemie, 2021, 133, 14699-14706.	2.0	0
138	An arrayed-window microfluidic device for observation of mixed nanoparticles with an X-ray free-electron laser. Optical Review, 2022, 29, 7.	2.0	0