Makina Yabashi

List of Publications by Year in Descending Order

594 papers	16,340 citations	60 h-index	104 g-index
665 ext. papers	18,582 ext. citations	4.9 avg, IF	5.91 L-index

#	Paper	IF	Citations
594	An arrayed-window microfluidic device for observation of mixed nanoparticles with an X-ray free-electron laser. *Optical Review*, **2022**, 29, 7	0.9	
593	Quantitative analysis of the effect of radiation on mitochondria structure using coherent diffraction imaging with a clustering algorithm.. *IUCrJ*, **2022**, 9, 223-230	4.7	0
592	Fine microstructure formation in steel under ultrafast heating and cooling.. *Scientific Reports*, **2022**, 12, 2237	4.9	0
591	Single-shot spectrometer using diamond microcrystals for X-ray free-electron laser pulses.. *Journal of Synchrotron Radiation*, **2022**, 29, 862-865	2.4	0
590	Generation of intense phase-stable femtosecond hard X-ray pulse pairs.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2119616119	11.5	1
589	Generating 77 T using a portable pulse magnet for single-shot quantum beam experiments. *Applied Physics Letters*, **2022**, 120, 142403	3.4	2
588	Characterization of photoinduced normal state through charge density wave in superconducting YBaCuO.. *Science Advances*, **2022**, 8, eabk0832	14.3	1
587	Experimental evidence of tetrahedral symmetry breaking in SiO glass under pressure.. *Nature Communications*, **2022**, 13, 2292	17.4	1
586	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,	11.5	2
585	Polarization-Resolved Extreme-Ultraviolet Second-Harmonic Generation from LiNbO_{3}.. *Physical Review Letters*, **2021**, 127, 237402	7.4	0
584	Shortening X-Ray Pulse Duration via Saturable Absorption. *Physical Review Letters*, **2021**, 127, 163903	7.4	1
583	Atomic-Scale Visualization of Ultrafast Bond Breaking in X-Ray-Excited Diamond. *Physical Review Letters*, **2021**, 126, 117403	7.4	8
582	Femtosecond Charge Density Modulations in Photoexcited CuWO. *Journal of Physical Chemistry C*, **2021**, 125, 7329-7336	3.8	2
581	Liquid Structure of Tantalum under Internal Negative Pressure. *Physical Review Letters*, **2021**, 126, 175503	7.4	2
580	Laser-induced transient magnons in SrIrO throughout the Brillouin zone. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
579	X-ray adaptive zoom condenser utilizing an intermediate virtual focus. *Optics Express*, **2021**, 29, 15604-15615	3.8	1
578	Micron-scale phenomena observed in a turbulent laser-produced plasma. *Nature Communications*, **2021**, 12, 2679	17.4	7

577	Spatially resolved single-shot absorption spectroscopy with x-ray free electron laser pulse. *Review of Scientific Instruments*, **2021**, 92, 053534	1.7	1
576	Resonant X-ray emission spectroscopy from broadband stochastic pulses at an X-ray free electron laser.. *Communications Chemistry*, **2021**, 4,	6.3	1
575	Hard X-ray nanoprobe scanner. *IUCrJ*, **2021**, 8, 713-718	4.7	1
574	Dissociation and ionization dynamics of CF3I and CH3I molecules via pump-and-probe experiments using soft x-ray free-electron laser. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2021**, 54, 144004	1.3	0
573	Femtosecond X-ray spectroscopy of haem proteins. *Faraday Discussions*, **2021**, 228, 312-328	3.6	
572	Surface plasma resonance in Xe clusters studied by EUV pump-NIR probe experiments. *Journal of Physics Communications*, **2021**, 5, 015014	1.2	1
571	X-ray radiography based on the phase-contrast imaging with using LiF detector. *Journal of Physics: Conference Series*, **2021**, 1787, 012027	0.3	
570	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	1.3	3
569	A self-referenced in-situ arrival time monitor for X-ray free-electron lasers. *Scientific Reports*, **2021**, 11, 3562	4.9	0
568	Structural involvement in the melting of the charge density wave in 1T□iSe2. *Physical Review Research*, **2021**, 3,	3.9	2
567	Ultrafast olivine-ringwoodite transformation during shock compression. *Nature Communications*, **2021**, 12, 4305	17.4	5
566	Extreme Ultraviolet Second Harmonic Generation Spectroscopy in a Polar Metal. *Nano Letters*, **2021**, 21, 6095-6101	11.5	3
565	Copper electroforming replication process for soft x-ray mirrors.. *Review of Scientific Instruments*, **2021**, 92, 123106	1.7	1
564	Optimal deformation procedure for hybrid adaptive x-ray mirror based on mechanical and piezo-driven bending system.. *Review of Scientific Instruments*, **2021**, 92, 123706	1.7	1
563	Inducing thermodynamically blocked atomic ordering via strongly driven nonequilibrium kinetics.. *Science Advances*, **2021**, 7, eabj8552	14.3	1
562	Femtosecond Optical Laser System with Spatiotemporal Stabilization for Pump-Probe Experiments at SACLA. *Applied Sciences (Switzerland)*, **2020**, 10, 7934	2.6	2
561	Development of an Experimental Platform for Combinative Use of an XFEL and a High-Power Nanosecond Laser. *Applied Sciences (Switzerland)*, **2020**, 10, 2224	2.6	9
560	Element-selectively tracking ultrafast demagnetization process in Co/Pt multilayer thin films by the resonant magneto-optical Kerr effect. *Applied Physics Letters*, **2020**, 116, 172406	3.4	17

559	Multielectron-Ion Coincidence Spectroscopy of Xe in Extreme Ultraviolet Laser Fields: Nonlinear Multiple Ionization via Double Core-Hole States. *Physical Review Letters*, **2020**, 124, 193201	7.4	2
558	Mapping the emergence of molecular vibrations mediating bond formation. *Nature*, **2020**, 582, 520-524	50.4	28
557	Real-time observation of disintegration processes within argon clusters ionized by a hard-x-ray pulse of moderate fluence. *Physical Review A*, **2020**, 101,	2.6	5
556	Ellipsometer Equipped with Multiple Mirrors for Element-selective Soft X-ray Experiments. *E-Journal of Surface Science and Nanotechnology*, **2020**, 18, 231-234	0.7	0
555	Structural Investigation of Single Specimens with a Femtosecond X-Ray Laser: Routes to Signal-to-Noise Ratio Enhancement. *Physical Review Applied*, **2020**, 13,	4.3	2
554	The Magnitude and Waveform of Shock Waves Induced by X-ray Lasers in Water. *Applied Sciences (Switzerland)*, **2020**, 10, 1497	2.6	3
553	Direct observation of elastic softening immediately after femtosecond-laser excitation in a phase-change material. *Physical Review B*, **2020**, 101,	3.3	2
552	Photoswitching mechanism of a fluorescent protein revealed by time-resolved crystallography and transient absorption spectroscopy. *Nature Communications*, **2020**, 11, 741	17.4	23
551	Characterizing the intrinsic properties of individual XFEL pulses via single-particle diffraction. *Journal of Synchrotron Radiation*, **2020**, 27, 17-24	2.4	3
550	Viscosity-adjustable grease matrices for serial nanocrystallography. *Scientific Reports*, **2020**, 10, 1371	4.9	6
549	Nanofocusing Optics for an X-Ray Free-Electron Laser Generating an Extreme Intensity of 100 EW/cm2 Using Total Reflection Mirrors. *Applied Sciences (Switzerland)*, **2020**, 10, 2611	2.6	6
548	Realizing split-pulse x-ray photon correlation spectroscopy to measure ultrafast dynamics in complex matter. *Physical Review Research*, **2020**, 2,	3.9	4
547	Single shot x-ray diffractometry in SACLA with pulsed magnetic fields up to 16 T. *Physical Review Research*, **2020**, 2,	3.9	3
546	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	5
545	Characterization of soft X-ray FEL pulse duration with two-color photoelectron spectroscopy. *Journal of Synchrotron Radiation*, **2020**, 27, 1362-1365	2.4	5
544	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	1
543	Two-color X-ray free-electron laser consisting of broadband and narrowband beams. *Journal of Synchrotron Radiation*, **2020**, 27, 1720-1724	2.4	3
542	Refinement for single-nanoparticle structure determination from low-quality single-shot coherent diffraction data. *IUCrJ*, **2020**, 7, 10-17	4.7	5

541	Characterizing crystalline defects in single nanoparticles from angular correlations of single-shot diffracted X-rays. *IUCrJ*, **2020**, 7, 276-286	4.7	2
540	EuPRAXIA Conceptual Design Report. *European Physical Journal: Special Topics*, **2020**, 229, 3675-4284	2.3	23
539	High-resolution micro channel-cut crystal monochromator processed by plasma chemical vaporization machining for a reflection self-seeded X-ray free-electron laser. *Optics Express*, **2020**, 28, 25706-25715	3.3	3
538	Compact full-field hard x-ray microscope based on advanced KirkpatrickBaez mirrors. *Optica*, **2020**, 7, 367	8.6	2
537	X-Ray Single-Grating Interferometry for Wavefront Measurement and Correction of Hard X-Ray Nanofocusing Mirrors. *Sensors*, **2020**, 20,	3.8	2
536	Perfect Crystal Optics **2020**, 1123-1159		
535	Foreword to the special virtual issue on X-ray free-electron lasers. *Journal of Synchrotron Radiation*, **2020**, 27, 576	2.4	
534	Photoemission from the gas phase using soft x-ray fs pulses: an investigation of the space-charge effects. *New Journal of Physics*, **2020**, 22, 123029	2.9	2
533	Charge Trapping Process in Photoexcited Nitrogen-Doped Titanium Oxides. *Inorganic Chemistry*, **2020**, 59, 10439-10449	5.1	1
532	Characterizing crystalline defects in single Xe nanoparticles from angular correlations of single-shot diffracted X-rays. *Journal of Physics: Conference Series*, **2020**, 1412, 202028	0.3	
531	Demonstration of Transmission Mode Soft X-ray NEXAFS Using Third- and Fifth-Order Harmonics of FEL Radiation at SACLA BL1. *Applied Sciences (Switzerland)*, **2020**, 10, 7852	2.6	1
530	Feasibility study of interferometric phase-contrast X-ray imaging using the hard-X-ray free-electron laser of the SPring-8 Angstrom Compact Free-Electron Laser. *Journal of Synchrotron Radiation*, **2020**, 27, 1358-1361	2.4	0
529	Slowing down of dynamics and orientational order preceding crystallization in hard-sphere systems. *Science Advances*, **2020**, 6,	14.3	4
528	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, 042405	3.4	3
527	Femtosecond X-ray emission study of the spin cross-over dynamics in haem proteins. *Nature Communications*, **2020**, 11, 4145	17.4	12
526	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	1.7	0
525	Photoinduced anisotropic distortion as the electron trapping site of tungsten trioxide by ultrafast W L-edge X-ray absorption spectroscopy with full potential multiple scattering calculations. *Physical Chemistry Chemical Physics*, **2020**, 22, 2615-2621	3.6	10
524	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	0

523	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
522	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	3.6	2
521	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	3.6	4
520	Determination of X-ray pulse duration via intensity correlation measurements of X-ray fluorescence. *Journal of Synchrotron Radiation*, **2019**, 26, 2050-2054	2.4	8
519	Tracking multiple components of a nuclear wavepacket in photoexcited Cu(I)-phenanthroline complex using ultrafast X-ray spectroscopy. *Nature Communications*, **2019**, 10, 3606	17.4	37
518	A versatile experimental system for tracking ultrafast chemical reactions with X-ray free-electron lasers. *Structural Dynamics*, **2019**, 6, 054302	3.2	7
517	Ultrafast Structural Dynamics of Nanoparticles in Intense Laser Fields. *Physical Review Letters*, **2019** , 123, 123201	7.4	7
516	Improvement of Production and Isolation of Human Neuraminidase-1 Crystals.. *ACS Applied Bio Materials*, **2019**, 2, 4941-4952	4.1	1
515	Direct observation of picosecond melting and disintegration of metallic nanoparticles. *Nature Communications*, **2019**, 10, 2411	17.4	26
514	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CHI. *Nature Communications*, **2019**, 10, 2186	17.4	14
513	Generation of narrow-band X-ray free-electron laser via reflection self-seeding. *Nature Photonics*, **2019**, 13, 319-322	33.9	42
512	Two- and three-photon double ionization of helium by soft x-ray free-electron laser pulses. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2019**, 52, 065602	1.3	2
511	X-ray induced damage of BC-coated bilayer materials under various irradiation conditions. *Scientific Reports*, **2019**, 9, 2029	4.9	8
510	Fine microstructure formation in steel under ultrafast heating. *Scientific Reports*, **2019**, 9, 11241	4.9	7
509	Effect of Anisotropic Hybridization in YbAlB_{4} Probed by Linear Dichroism in Core-Level Hard X-Ray Photoemission Spectroscopy. *Physical Review Letters*, **2019**, 123, 036404	7.4	7
508	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. *Science*, **2019**, 366, 334-338	33.3	143
507	High-viscosity sample-injection device for serial femtosecond crystallography at atmospheric pressure. *Journal of Applied Crystallography*, **2019**, 52, 1280-1288	3.8	24
506	X-ray optics for advanced ultrafast pump-probe X-ray experiments at SACLA. *Journal of Synchrotron Radiation*, **2019**, 26, 333-338	2.4	15

505	An experimental platform using high-power, high-intensity optical lasers with the hard X-ray free-electron laser at SACLA. *Journal of Synchrotron Radiation*, **2019**, 26, 585-594	2.4	14
504	Multiple-beamline operation of SACLA. *Journal of Synchrotron Radiation*, **2019**, 26, 595-602	2.4	14
503	Arrival timing diagnostics at a soft X-ray free-electron laser beamline of SACLA BL1. *Journal of Synchrotron Radiation*, **2019**, 26, 887-890	2.4	5
502	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	2
501	Intense sub-micrometre focusing of soft X-ray free-electron laser beyond 10 W cm with an ellipsoidal mirror. *Journal of Synchrotron Radiation*, **2019**, 26, 1406-1411	2.4	11
500	An optical design of twin Wolter mirrors for focusing and imaging experiments with soft X-ray free electron lasers **2019**,		2
499	Compact reflective imaging optics in hard X-ray region based on concave and convex mirrors. *Optics Express*, **2019**, 27, 3429-3438	3.3	4
498	Full-field X-ray fluorescence microscope based on total-reflection advanced Kirkpatrick-Baez mirror optics. *Optics Express*, **2019**, 27, 18318-18328	3.3	19
497	Comparing the spatial coherence of the natural and focused X-rays from a free electron laser. *Optics Express*, **2019**, 27, 19573-19582	3.3	6
496	Full-field microscope with twin Wolter mirrors for soft X-ray free-electron lasers. *Optics Express*, **2019**, 27, 33889-33897	3.3	6
495	Development of an X-ray imaging detector to resolve 200 nm line-and-space patterns by using transparent ceramics layers bonded by solid-state diffusion. *Optics Letters*, **2019**, 44, 1403-1406	3	19
494	Measurement of the absolute number of photons of the hard X-ray beamline at the Linac Coherent Light Source. *Journal of Synchrotron Radiation*, **2019**, 26, 320-327	2.4	5
493	Surface Finishing Method Using Plasma Chemical Vaporization Machining for Narrow Channel Walls of X-Ray Crystal Monochromators. *International Journal of Automation Technology*, **2019**, 13, 246-253	0.8	1
492	Photoluminescence properties and characterization of LiF-based imaging detector irradiated by 10 keV XFEL beam **2019**,		1
491	Kinetics of a Phonon-Mediated Laser-Driven Structural Phase Transition in Sn2P2Se6. *Applied Sciences (Switzerland)*, **2019**, 9, 525	2.6	1
490	Electron spectroscopic study of nanoplasma formation triggered by intense soft x-ray pulses. *Journal of Chemical Physics*, **2019**, 151, 184305	3.9	1
489	Multispectroscopic Study of Single Xe Clusters Using XFEL Pulses. *Applied Sciences (Switzerland)*, **2019**, 9, 4932	2.6	1
488	A micro channel-cut crystal X-ray monochromator for a self-seeded hard X-ray free-electron laser. *Journal of Synchrotron Radiation*, **2019**, 26, 1496-1502	2.4	6

487	Ultrafast demagnetization of Pt magnetic moment in L10-FePt probed by magnetic circular dichroism at a hard x-ray free electron laser. *New Journal of Physics*, **2019**, 21, 123010	2.9	15
486	Quantum valence criticality in a correlated metal. *Science Advances*, **2018**, 4, eaao3547	14.3	17
485	In Situ Characterization of XFEL Beam Intensity Distribution and Focusability by High-Resolution LiF Crystal Detector. *Springer Proceedings in Physics*, **2018**, 109-115	0.2	
484	Ar 3pphotoelectron sideband spectra in two-color XUV + NIR laser fields. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2018**, 51, 075601	1.3	6
483	An X-ray harmonic separator for next-generation synchrotron X-ray sources and X-ray free-electron lasers. *Journal of Synchrotron Radiation*, **2018**, 25, 346-353	2.4	7
482	Rare-Earth Fourth-Order Multipole Moment in Cubic ErCo2Probed by Linear Dichroism in Core-Level Photoemission. *Journal of the Physical Society of Japan*, **2018**, 87, 033710	1.5	1
481	Nano-structuring of multi-layer material by single x-ray vortex pulse with femtosecond duration. *Applied Physics Letters*, **2018**, 112, 123103	3.4	16
480	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	1.2	2
479	Polarization-dependent X-ray photoemission spectroscopy for High-Tc cuprate superconductors. *Physica B: Condensed Matter*, **2018**, 536, 843-846	2.8	2
478	Nearly diffraction-limited hard X-ray line focusing with hybrid adaptive X-ray mirror based on mechanical and piezo-driven deformation. *Optics Express*, **2018**, 26, 17477-17486	3.3	8
477	Necessary Experimental Conditions for Single-Shot Diffraction Imaging of DNA-Based Structures with X-ray Free-Electron Lasers. *ACS Nano*, **2018**, 12, 7509-7518	16.7	18
476	Systematic-error-free wavefront measurement using an X-ray single-grating interferometer. *Review of Scientific Instruments*, **2018**, 89, 043106	1.7	13
475	Nonlinear Spectroscopy with X-Ray Two-Photon Absorption in Metallic Copper. *Physical Review Letters*, **2018**, 121, 083901	7.4	23
474	Software for the data analysis of the arrival-timing monitor at SACLA. *Journal of Synchrotron Radiation*, **2018**, 25, 592-603	2.4	7
473	Following the Birth of a Nanoplasma Produced by an Ultrashort Hard-X-Ray Laser in Xenon Clusters. *Physical Review X*, **2018**, 8,	9.1	11
472	Development of new diagnostics based on LiF detector for pump-probe experiments. *Matter and Radiation at Extremes*, **2018**, 3, 197-206	4.7	6
471	Performance of a hard X-ray split-and-delay optical system with a wavefront division. *Journal of Synchrotron Radiation*, **2018**, 25, 20-25	2.4	18
470	Single-shot arrival timing diagnostics for a soft X-ray free-electron laser beamline at SACLA. *Journal of Synchrotron Radiation*, **2018**, 25, 68-71	2.4	11

469	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	57
468	Dynamics of soft nanoparticle suspensions at hard X-ray FEL sources below the radiation-damage threshold. *IUCrJ*, **2018**, 5, 801-807	4.7	14
467	Microcrystal-carrier matrices for serial crystallography. *Journal of Biological Macromolecules*, **2018**, 18, 15-22	0.4	
466	X-Ray Free Electron Lasers and Their Applications **2018**, 1-21		5
465	X-ray Hanbury Brown-Twiss interferometry for determination of ultrashort electron-bunch duration. *Physical Review Accelerators and Beams*, **2018**, 21,	1.8	11
464	Crystal Structures of Human Orexin 2 Receptor Bound to the Subtype-Selective Antagonist EMPA. *Structure*, **2018**, 26, 7-19.e5	5.2	41
463	Superradiance of an ensemble of nuclei excited by a free electron laser. *Nature Physics*, **2018**, 14, 261-264	6.2	19
462	High-Resolution Full-Field X-ray Microscope for 20-keV X-rays with Multilayer Imaging Mirrors. *Microscopy and Microanalysis*, **2018**, 24, 288-289	0.5	2
461	Femtosecond resonant magneto-optical Kerr effect measurement on an ultrathin magnetic film in a soft X-ray free electron laser. *Japanese Journal of Applied Physics*, **2018**, 57, 09TD02	1.4	6
460	Dynamics of the photoinduced insulator-to-metal transition in a nickelate film. *Structural Dynamics*, **2018**, 5, 064501	3.2	6
459	Reflective Imaging Optics Using Concave and Convex Mirrors for a Compact and Achromatic Full-field X-ray Microscope.. *Microscopy and Microanalysis*, **2018**, 24, 276-277	0.5	2
458	Advanced high resolution x-ray diagnostic for HEDP experiments. *Scientific Reports*, **2018**, 8, 16407	4.9	10
457	Superfluorescence, Free-Induction Decay, and Four-Wave Mixing: Propagation of Free-Electron Laser Pulses through a Dense Sample of Helium Ions. *Physical Review Letters*, **2018**, 121, 263201	7.4	16
456	Nanofocusing of X-ray free-electron laser using wavefront-corrected multilayer focusing mirrors. *Scientific Reports*, **2018**, 8, 17440	4.9	29
455	Time-resolved photoelectron angular distributions from nonadiabatically aligned CO2 molecules with SX-FEL at SACLA. *Journal of Physics Communications*, **2018**, 2, 115015	1.2	3
454	Stabilization of X-ray Beamline Optics towards Tens of Nanoradian Levels at SPring-8/SACLA. *Synchrotron Radiation News*, **2018**, 31, 33-37	0.6	
453	Revising the 4f symmetry in CeCu2Ge2: Soft x-ray absorption and hard x-ray photoemission spectroscopy. *Physical Review B*, **2018**, 98,	3.3	4
452	Development of Multilayer Focusing Mirror System for XFEL CDI Experiments of Biological Particles. *Microscopy and Microanalysis*, **2018**, 24, 298-299	0.5	2

451	Photoelectron spectroscopy of Rydberg excited states in singly charged molecular ions CS2 + by NIR laser pulses. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2018**, 51, 225601	1.3	
450	Single-shot 3D coherent diffractive imaging of core-shell nanoparticles with elemental specificity. *Scientific Reports*, **2018**, 8, 8284	4.9	7
449	Radiation-Induced Chemical Dynamics in Ar Clusters Exposed to Strong X-Ray Pulses. *Physical Review Letters*, **2018**, 120, 223201	7.4	13
448	Element Selectivity in Second-Harmonic Generation of GaFeO_{3} by a Soft-X-Ray Free-Electron Laser. *Physical Review Letters*, **2018**, 120, 223902	7.4	14
447	Data Analysis Environment for X-ray Free-Electron Laser Experiments at SACLA. *Synchrotron Radiation News*, **2017**, 30, 16-21	0.6	3
446	Ultrafast observation of lattice dynamics in laser-irradiated gold foils. *Applied Physics Letters*, **2017**, 110, 071905	3.4	14
445	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. *Nature* , **2017**, 543, 131-135	50.4	400
444	Coherent X-ray beam metrology using 2D high-resolution Fresnel-diffraction analysis. *Journal of Synchrotron Radiation*, **2017**, 24, 196-204	2.4	7
443	Ultrafast Coulomb explosion of a diiodomethane molecule induced by an X-ray free-electron laser pulse. *Physical Chemistry Chemical Physics*, **2017**, 19, 19707-19721	3.6	23
442	Capturing local structure modulations of photoexcited BiVO by ultrafast transient XAFS. *Chemical Communications*, **2017**, 53, 7314-7317	5.8	17
441	Overview of optics, photon diagnostics and experimental instruments at SACLA: development, operation and scientific applications **2017**,		3
440	Hydroxyethyl cellulose matrix applied to serial crystallography. *Scientific Reports*, **2017**, 7, 703	4.9	55
439	Linear dichroism in 3d core-level and 4f valence-band photoemission spectra of strongly correlated rare-earth compounds. *Journal of Electron Spectroscopy and Related Phenomena*, **2017**, 220, 61-65	1.7	1
438	Hole doping effect on the electronic structure of layered oxypnictide LaOMnAs. *Journal of Electron Spectroscopy and Related Phenomena*, **2017**, 220, 58-60	1.7	1
437	An accumulation mode of a room-temperature calorimeter for total pulse energy measurement of X-ray FELs. *Journal of Electron Spectroscopy and Related Phenomena*, **2017**, 220, 3-5	1.7	
436	On the size of the secondary electron cloud in crystals irradiated by hard X-ray photons. *European Physical Journal D*, **2017**, 71, 1	1.3	10
435	The next ten years of X-ray science. *Nature Photonics*, **2017**, 11, 12-14	33.9	53
434	Femtosecond time-resolved X-ray absorption spectroscopy of anatase TiO nanoparticles using XFEL. *Structural Dynamics*, **2017**, 4, 044033	3.2	37

433	FELs Status: A Look Ahead to 2018. *Synchrotron Radiation News*, **2017**, 30, 2-2	0.6	1
432	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. *Science Advances*, **2017**, 3, e1603042	14.3	52
431	Horizon 2020 EuPRAXIA design study. *Journal of Physics: Conference Series*, **2017**, 874, 012029	0.3	57
430	Search for Two-Photon Interaction with Axionlike Particles Using High-Repetition Pulsed Magnets and Synchrotron X Rays. *Physical Review Letters*, **2017**, 118, 071803	7.4	8
429	50-nm-resolution full-field X-ray microscope without chromatic aberration using total-reflection imaging mirrors. *Scientific Reports*, **2017**, 7, 46358	4.9	59
428	Capturing an initial intermediate during the P450nor enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. *Nature Communications*, **2017**, 8, 1585	17.4	52
427	Multi-wavelength anomalous diffraction de novo phasing using a two-colour X-ray free-electron laser with wide tunability. *Nature Communications*, **2017**, 8, 1170	17.4	27
426	Atomic resolution structure of serine protease proteinase K at ambient temperature. *Scientific Reports*, **2017**, 7, 45604	4.9	19
425	XFEL **2017**, 63-66		
424	Two-colour serial femtosecond crystallography dataset from gadoteridol-derivatized lysozyme for MAD phasing. *Scientific Data*, **2017**, 4, 170188	8.2	3
423	Contrasting behavior of covalent and molecular carbon allotropes exposed to extreme ultraviolet and soft x-ray free-electron laser radiation. *Physical Review B*, **2017**, 96,	3.3	12
422	Linear Dichroism in Angle-Resolved Core-Level Photoemission Spectra Reflecting 4fGround-State Symmetry of Strongly Correlated Cubic Pr Compounds. *Journal of the Physical Society of Japan*, **2017**, 86, 123703	1.5	8
421	Overview of XFEL and SACLA. *Nihon Kessho Gakkaishi*, **2017**, 59, 2-5	0	
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