List of Publications by Year in descending order

75 papers	5,738 citations	186265 28 h-index	98798 67 g-index
79 all docs	79 docs citations	79 times ranked	5226 citing authors

#	Article	IF	Citations
1	Femtosecond X-ray protein nanocrystallography. Nature, 2011, 470, 73-77.	27.8	1,771
2	Single mimivirus particles intercepted and imaged with an X-ray laser. Nature, 2011, 470, 78-81.	27.8	790
3	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. Nature Photonics, 2012, 6, 35-40.	31.4	292
4	Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express, 2012, 20, 2706.	3.4	219
5	In vivo protein crystallization opens new routes in structural biology. Nature Methods, 2012, 9, 259-262.	19.0	193
6	Time-resolved pump-probe experiments at the LCLS. Optics Express, 2010, 18, 17620.	3.4	167
7	Auger Electron Angular Distribution of Double Core-Hole States in the Molecular Reference Frame. Physical Review Letters, 2010, 105, 083004.	7.8	163
8	Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. Physical Review B, 2011, 84, 214111.	3.2	156
9	High-throughput imaging of heterogeneous cell organelles with an X-ray laser. Nature Photonics, 2014, 8, 943-949.	31.4	156
10	Imaging single cells in a beam of live cyanobacteria with an X-ray laser. Nature Communications, 2015, 6, 5704.	12.8	156
11	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
12	Lipidic phase membrane protein serial femtosecond crystallography. Nature Methods, 2012, 9, 263-265.	19.0	135
13	Unsupervised classification of single-particle X-ray diffraction snapshots by spectral clustering. Optics Express, 2011, 19, 16542.	3.4	91
14	Explosions of Xenon Clusters in Ultraintense Femtosecond X-Ray Pulses from the LCLS Free Electron Laser. Physical Review Letters, 2012, 108, 133401.	7.8	73
15	Electron-phonon interactions in perovskites containing Fe and Cr studied by Raman scattering using oxygen-isotope and cation substitution. Physical Review B, 2008, 78, .	3.2	68
16	Coherent diffraction of single Rice Dwarf virus particles using hard X-rays at the Linac Coherent Light Source. Scientific Data, 2016, 3, 160064.	5.3	64
17	Experimental strategies for imaging bioparticles with femtosecond hard X-ray pulses. IUCrJ, 2017, 4, 251-262.	2.2	63
18	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. Physical Review Letters, 2010, 104, 225001.	7.8	62

#	Article	IF	Citations
19	Franck-Condon higher order lattice excitations in theLaFe1âˆ'xCrxO3(x=0, 0.1, 0.5, 0.9, 1.0) perovskites due to Fe-Cr charge transfer effects. Physical Review B, 2007, 75, .	3.2	60
20	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. Physical Review Letters, 2010, 104, 064801.	7.8	59
21	Transferring the entatic-state principle to copper photochemistry. Nature Chemistry, 2018, 10, 355-362.	13.6	59
22	Femtosecond X-ray Fourier holography imaging of free-flying nanoparticles. Nature Photonics, 2018, 12, 150-153.	31.4	58
23	Megahertz single-particle imaging at the European XFEL. Communications Physics, 2020, 3, .	5.3	58
24	Electrospray sample injection for single-particle imaging with x-ray lasers. Science Advances, 2019, 5, eaav8801.	10.3	49
25	Automated identification and classification of single particle serial femtosecond X-ray diffraction data. Optics Express, 2014, 22, 2497.	3.4	45
26	Soft x-ray free electron laser microfocus for exploring matter under extreme conditions. Optics Express, 2009, 17, 18271.	3.4	44
27	Considerations for three-dimensional image reconstruction from experimental data in coherent diffractive imaging. IUCrJ, 2018, 5, 531-541.	2.2	40
28	High-flux source of coherent XUV pulses for user applications. Optics Express, 2019, 27, 8871.	3.4	36
29	Rayleigh-scattering microscopy for tracking and sizing nanoparticles in focused aerosol beams. IUCrJ, 2018, 5, 673-680.	2.2	31
30	Molecular frame Auger electron energy spectrum from N2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 055601.	1.5	25
31	Saturated ablation in metal hydrides and acceleration of protons and deuterons to keV energies with a soft-x-ray laser. Physical Review E, 2011, 83, 016403.	2.1	24
32	Femtosecond-to-nanosecond dynamics of flavin mononucleotide monitored by stimulated Raman spectroscopy and simulations. Physical Chemistry Chemical Physics, 2020, 22, 6538-6552.	2.8	22
33	Ultrafast dynamics of hot charge carriers in an oxide semiconductor probed by femtosecond spectroscopic ellipsometry. New Journal of Physics, 2020, 22, 083066.	2.9	21
34	Order-disorder-order phase transitions in the pyrochlore superconductorCd2Re2O7. Physical Review B, 2005, 71, .	3.2	20
35	Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser. Scientific Data, 2016, 3, 160060.	5.3	18
36	Explosion, ion acceleration, and molecular fragmentation of methane clusters in the pulsed beam of a free-electron laser. Physical Review A, 2012, 86, .	2.5	17

#	Article	IF	Citations
37	Demonstration of electron diffraction from membrane protein crystals grown in a lipidic mesophase after lamella preparation by focused ion beam milling at cryogenic temperatures. Journal of Applied Crystallography, 2020, 53, 1416-1424.	4.5	17
38	Electron-lattice interactions in the perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.5</mm by optical spectroscopy and<mml:math xmlns:mml="http://www.w3.or. Physical Review B, 2009, 80, .	3.2	15
39	Time-Resolved XUV Opacity Measurements of Warm Dense Aluminum. Physical Review Letters, 2020, 124, 225002.	7.8	15
40	An advanced workflow for single-particle imaging with the limited data at an X-ray free-electron laser. IUCrJ, 2020, 7, 1102-1113.	2.2	15
41	Transient dielectric functions of Ge, Si, and InP from femtosecond pump-probe ellipsometry. Applied Physics Letters, 2019, 115, .	3.3	14
42	Broadband femtosecond spectroscopic ellipsometry. Review of Scientific Instruments, 2021, 92, 033104.	1.3	14
43	Explosion dynamics of sucrose nanospheres monitored by time of flight spectrometry and coherent diffractive imaging at the split-and-delay beam line of the FLASH soft X-ray laser. Optics Express, 2014, 22, 28914.	3.4	13
44	Structural dynamics upon photoexcitation-induced charge transfer in a dicopper(<scp>i</scp>)â€“disulfide complex. Physical Chemistry Chemical Physics, 2018, 20, 6274-6286.	2.8	13
45	A multipurpose end-station for atomic, molecular and optical sciences and coherent diffractive imaging at ELI beamlines. European Physical Journal: Special Topics, 2021, 230, 4183-4194.	2.6	13
46	Single particle imaging with soft x-rays at the Linac Coherent Light Source. , 2011, , .		12
47	A data set from flash X-ray imaging of carboxysomes. Scientific Data, 2016, 3, 160061.	5.3	11
48	Characterization of the high harmonics source for the VUV ellipsometer at ELI Beamlines. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 024005.	1.2	11
49	Two-magnon Raman scattering from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cu</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msu in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
55	First experiments with a water-jet plasma X-ray source driven by the novel high-powerâ€“high-repetition rate L1 Allegra laser at ELI Beamlines. Journal of Synchrotron Radiation, 2021, 28, 1778-1785.	2.4	7
56	Resonant two-phonon Raman scattering as a probe of hole crystal formation inSr14âˆ’xCaxCu24O41. Physical Review B, 2006, 74, .	3.2	6
57	Antiferromagnetic and superconducting proximity effects inYBa2Cu3O7âˆ’Î´/PrBa2Cu3O7âˆ’Î´superlattices. Physical Review B, 2003, 67, .	3.2	5
58	Nanometre-sized droplets from a gas dynamic virtual nozzle. Journal of Applied Crystallography, 2019, 52, 800-808.	4.5	5
59	Macromolecular Nanocrystal Structural Analysis with Electron and X-Rays: A Comparative Review. Molecules, 2019, 24, 3490.	3.8	5
60	Implementation of a crossed-slit system for fast alignment of sealed polycapillary X-ray optics. Journal of Synchrotron Radiation, 2020, 27, 1730-1733.	2.4	5
61	Photoinduced insulator-to-metal transition and coherent acoustic phonon propagation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> thin films explored by femtosecond pump-probe ellipsometry. Physical Review B, 2022, 105, .	3.2	5
62	Modeling of soft x-ray induced ablation in solids. Proceedings of SPIE, 2011, , .	0.8	4
63	Plasma channel formation in NIR laser-irradiated carrier gas from an aerosol nanoparticle injector. Scientific Reports, 2019, 9, 8851.	3.3	4
64	Characterizing the focus of a multilayer coated off-axis parabola for FLASH beam at Î» = 4.3 nm. Proceedings of SPIE, 2013, , .	0.8	3
65	Progress on laser-driven x-ray sources at ELI Beamlines. , 2019, , .		3
66	Nanoparticle-assisted acceleration of laser-irradiated low-density He ions. Physical Review A, 2021, 104, .	2.5	3
67	A statistical approach to detect protein complexes at X-ray freeÂelectron laser facilities. Communications Physics, 2018, 1, .	5.3	2
68	Kilohertz Macromolecular Crystallography Using an EIGER Detector at Low X-ray Fluxes. Crystals, 2020, 10, 1146.	2.2	2
69	Coherent acoustic phonon oscillations and transient critical point parameters of Ge from femtosecond pumpâ€probe ellipsometry. Physica Status Solidi - Rapid Research Letters, 0, , .	2.4	2
70	Update on laser-driven X-ray sources at ELI Beamlines. , 2021, , .		1
71	Fragmentation of clusters and recombination induced by intense and ultrashort x-ray laser pulses. , 2013, , .		0
72	Analysis of temperature-dependent and time-resolved ellipsometry spectra of Ge. , 2021, , .		0

#	Article	IF	Citations
73	XUV Reflection and Ellipsometry Experiments at ELIBeamlines. , 2020, , .		0
74	Spectral and Polarization Properties of VUV-Mirrors for Experiments at a HHG Beamline. Springer Proceedings in Physics, 2020, , 175-179.	0.2	0
75	ELI Beamlines User Oriented High-Harmonic Beamline. , 2020, , .		0