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	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
2	Transient birefringence and dichroism in ZnO studied with fs-time-resolved spectroscopic ellipsometry. Physical Review Research, 2021, 3, .	3.6	8
3	Broadband femtosecond spectroscopic ellipsometry. Review of Scientific Instruments, 2021, 92, 033104.	1.3	14
4	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
5	Update on laser-driven X-ray sources at ELI Beamlines. , 2021, , .		1
6	Analysis of temperature-dependent and time-resolved ellipsometry spectra of Ge. , 2021, , .		0
7	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
8	Nanoparticle-assisted acceleration of laser-irradiated low-density He ions. Physical Review A, 2021, 104, .	2.5	3
9	Kilohertz Macromolecular Crystallography Using an EIGER Detector at Low X-ray Fluxes. Crystals, 2020, 10, 1146.	2.2	2
10	Megahertz single-particle imaging at the European XFEL. Communications Physics, 2020, 3, .	5.3	58
11	Time-Resolved XUV Opacity Measurements of Warm Dense Aluminum. Physical Review Letters, 2020, 124, 225002.	7.8	15
12	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
13	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
14	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
15	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
16	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
17	XUV Reflection and Ellipsometry Experiments at ELIBeamlines. , 2020, , .		0
18	Spectral and Polarization Properties of VUV-Mirrors for Experiments at a HHG Beamline. Springer Proceedings in Physics, 2020, , 175-179.	0.2	0

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19	ELI Beamlines User Oriented High-Harmonic Beamline. , 2020, , .		0
20	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
21	Transient dielectric functions of Ge, Si, and InP from femtosecond pump-probe ellipsometry. Applied Physics Letters, 2019, 115, .	3.3	14
22	Nanometre-sized droplets from a gas dynamic virtual nozzle. Journal of Applied Crystallography, 2019, 52, 800-808.	4.5	5
23	Plasma channel formation in NIR laser-irradiated carrier gas from an aerosol nanoparticle injector. Scientific Reports, 2019, 9, 8851.	3.3	4
24	Macromolecular Nanocrystal Structural Analysis with Electron and X-Rays: A Comparative Review. Molecules, 2019, 24, 3490.	3.8	5
25	Electrospray sample injection for single-particle imaging with x-ray lasers. Science Advances, 2019, 5, eaav8801.	10.3	49
26	High-flux source of coherent XUV pulses for user applications. Optics Express, 2019, 27, 8871.	3.4	36
27	Progress on laser-driven x-ray sources at ELI Beamlines. , 2019, , .		3
28	Femtosecond X-ray Fourier holography imaging of free-flying nanoparticles. Nature Photonics, 2018, 12, 150-153.	31.4	58
29	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
30	Transferring the entatic-state principle to copper photochemistry. Nature Chemistry, 2018, 10, 355-362.	13.6	59
31	A statistical approach to detect protein complexes at X-ray freeÂelectron laser facilities. Communications Physics, 2018, 1, .	5.3	2
32	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
33	Considerations for three-dimensional image reconstruction from experimental data in coherent diffractive imaging. IUCrJ, 2018, 5, 531-541.	2.2	40
34	Rayleigh-scattering microscopy for tracking and sizing nanoparticles in focused aerosol beams. IUCrJ, 2018, 5, 673-680.	2.2	31
35	User oriented end-station on VUV pump-probe magneto-optical ellipsometry at ELI beamlines. Applied Surface Science, 2017, 421, 378-382.	6.1	10
36	Experimental strategies for imaging bioparticles with femtosecond hard X-ray pulses. IUCrJ, 2017, 4, 251-262.	2.2	63

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37	Hit detection in serial femtosecond crystallography using X-ray spectroscopy of plasma emission. IUCrJ, 2017, 4, 778-784.	2.2	7
38	Open data set of live cyanobacterial cells imaged using an X-ray laser. Scientific Data, 2016, 3, 160058.	5.3	7
39	A data set from flash X-ray imaging of carboxysomes. Scientific Data, 2016, 3, 160061.	5.3	11
40	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
41	Single-shot diffraction data from the Mimivirus particle using an X-ray free-electron laser. Scientific Data, 2016, 3, 160060.	5.3	18
42	Imaging single cells in a beam of live cyanobacteria with an X-ray laser. Nature Communications, 2015, 6, 5704.	12.8	156
43	Automated identification and classification of single particle serial femtosecond X-ray diffraction data. Optics Express, 2014, 22, 2497.	3.4	45
44	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
45	High-throughput imaging of heterogeneous cell organelles with an X-ray laser. Nature Photonics, 2014, 8, 943-949.	31.4	156
46	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
47	Fragmentation of clusters and recombination induced by intense and ultrashort x-ray laser pulses. , 2013, , .		0
48	Time-resolved protein nanocrystallography using an X-ray free-electron laser. Optics Express, 2012, 20, 2706.	3.4	219
49	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
50	Molecular frame Auger electron energy spectrum from N2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 055601.	1.5	25
51	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
52	Lipidic phase membrane protein serial femtosecond crystallography. Nature Methods, 2012, 9, 263-265.	19.0	135
53	Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. Nature Photonics, 2012, 6, 35-40.	31.4	292
54	In vivo protein crystallization opens new routes in structural biology. Nature Methods, 2012, 9, 259-262.	19.0	193

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55	Unsupervised classification of single-particle X-ray diffraction snapshots by spectral clustering. Optics Express, 2011, 19, 16542.	3.4	91
56	Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. Physical Review B, 2011, 84, 214111.	3.2	156
57	Single particle imaging with soft x-rays at the Linac Coherent Light Source. , 2011, , .		12
58	Single mimivirus particles intercepted and imaged with an X-ray laser. Nature, 2011, 470, 78-81.	27.8	790
59	Femtosecond X-ray protein nanocrystallography. Nature, 2011, 470, 73-77.	27.8	1,771
60	TOF-OFF: A method for determining focal positions in tightly focused free-electron laser experiments by measurement of ejected ions. High Energy Density Physics, 2011, 7, 336-342.	1.5	8
61	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
62	Modeling of soft x-ray induced ablation in solids. Proceedings of SPIE, 2011, , .	0.8	4
63	Time-resolved pump-probe experiments at the LCLS. Optics Express, 2010, 18, 17620.	3.4	167
64	Auger Electron Angular Distribution of Double Core-Hole States in the Molecular Reference Frame. Physical Review Letters, 2010, 105, 083004.	7.8	163
65	Sacrificial Tamper Slows Down Sample Explosion in FLASH Diffraction Experiments. Physical Review Letters, 2010, 104, 064801.	7.8	59
66	Electronic Structure of an XUV Photogenerated Solid-Density Aluminum Plasma. Physical Review Letters, 2010, 104, 225001.	7.8	62
67	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"		

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73	Order-disorder-order phase transitions in the pyrochlore superconductorCd2Re2O7. Physical Review B, 2005, 71, .	3.2	20
74	Antiferromagnetic and superconducting proximity effects inYBa2Cu3O7â^Î´/PrBa2Cu3O7â^Î´superlattices. Physical Review B, 2003, 67, .	3.2	5
75	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