Matthias Fuchs

List of Publications by Year in descending order

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29 papers	2,245 citations	471509 17 h-index	677142 22 g-index
29 all docs	29 docs citations	29 times ranked	2531 citing authors

#	Article	IF	Citations
1	Laser-driven soft-X-ray undulator source. Nature Physics, 2009, 5, 826-829.	16.7	324
2	Roadmap of ultrafast x-ray atomic and molecular physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032003.	1.5	240
3	X-ray and optical wave mixing. Nature, 2012, 488, 603-608.	27.8	199
4	Design considerations for table-top, laser-based VUV and X-ray free electron lasers. Applied Physics B: Lasers and Optics, 2007, 86, 431-435.	2.2	193
5	Generation of Stable, Low-Divergence Electron Beams by Laser-Wakefield Acceleration in a Steady-State-Flow Gas Cell. Physical Review Letters, 2008, 101, 085002.	7.8	192
6	Fourier-transform inelastic X-ray scattering from time- and momentum-dependent phononâ€“phonon correlations. Nature Physics, 2013, 9, 790-794.	16.7	149
7	GeV-scale electron acceleration in a gas-filled capillary discharge waveguide. New Journal of Physics, 2007, 9, 415-415.	2.9	132
8	Intense terahertz pulses from SLAC electron beams using coherent transition radiation. Review of Scientific Instruments, 2013, 84, 022701.	1.3	127
9	Ultralow emittance electron beams from a laser-wakefield accelerator. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	118
10	X-Ray Second Harmonic Generation. Physical Review Letters, 2014, 112, 163901.	7.8	116
11	Anomalous nonlinear X-ray Compton scattering. Nature Physics, 2015, 11, 964-970.	16.7	99
12	All-Optical Steering of Laser-Wakefield-Accelerated Electron Beams. Physical Review Letters, 2010, 105, 215001.	7.8	94
13	Single-cycle terahertz pulses with >0.2â€‰V/Ã… field amplitudes via coherent transition radiation. Applied Physics Letters, 2011, 99, .	3.3	74
14	Miniature magnetic devices for laser-based, table-top free-electron lasers. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	58
15	Nonsequential two-photon absorption from the K shell in solid zirconium. Physical Review A, 2016, 94, .	2.5	40
16	Imaging laser-wakefield-accelerated electrons using miniature magnetic quadrupole lenses. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	31
17	Characterization and tuning of ultrahigh gradient permanent magnet quadrupoles. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	30
18	The effects of maturation and aging on the rotator cuff tendonâ€toâ€bone interface. FASEB Journal, 2021, 35, e22066.	0.5	9

#	Article	IF	Citations
19	Ultrafast laser-induced melting and ablation studied by time-resolved diffuse X-ray scattering. EPJ Web of Conferences, 2013, 41, 04013.	0.3	5
20	Density measurement in a laser-plasma-accelerator capillary using Raman scattering. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	4
21	Below gap optical absorption in GaAs driven by intense, single-cycle coherent transition radiation. Optics Express, 2014, 22, 17423.	3.4	4
22	Single-shot structural analysis by high-energy X-ray diffraction using an ultrashort all-optical source. Scientific Reports, 2017, 7, 16603.	3.3	4
23	Nonlinear X-ray Compton Scattering. , 2014, , .		1
24	Resonant X-Ray Emission Spectroscopy with Free Electron Lasers: Nonequilibrium Electron Dynamics in Highly Excited Polar Semiconductors. , 2012, , .		1
25	Anomalous Two-Photon Compton Scattering. New Journal of Physics, 0, , .	2.9	1
26	RÃƒÂ¶ntgenstrahlung mit einem Laserplasma-Beschleuniger. Physik in Unserer Zeit, 2010, 41, 11-12.	0.0	0
27	First milestone on the path toward a table-top free-electron laser (FEL). , 2010, , .		0
28	Anomalous Nonlinear X-ray Compton Scattering. , 2016, , .		0
29	On the use of multilayer Laue lenses with X-ray free electron lasers. , 2021, , .		0