

Florian Loehl

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,690
citations

687363

13
h-index

940533

16
g-index

24
all docs

24
docs citations

24
times ranked

2659
citing authors

#	ARTICLE	IF	CITATIONS
1	Operation of a free-electron laser from the extreme ultraviolet to the water window. Nature Photonics, 2007, 1, 336-342.	31.4	1,455
2	First operation of a free-electron laser generating GW power radiation at 32Ånm wavelength. European Physical Journal D, 2006, 37, 297-303.	1.3	301
3	SwissFEL: The Swiss X-ray Free Electron Laser. Applied Sciences (Switzerland), 2017, 7, 720.	2.5	272
4	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. Nature Photonics, 2020, 14, 748-754.	31.4	140
5	Record high-average current from a high-brightness photoinjector. Applied Physics Letters, 2013, 102, .	3.3	118
6	Long-term femtosecond timing link stabilization using a single-crystal balanced cross correlator. Optics Letters, 2007, 32, 1044.	3.3	107
7	Electron Bunch Timing with Femtosecond Precision in a Superconducting Free-Electron Laser. Physical Review Letters, 2010, 104, 144801.	7.8	66
8	The SwissFEL soft X-ray free-electron laser beamline: Athos. Journal of Synchrotron Radiation, 2019, 26, 1073-1084.	2.4	51
9	Efficient generation of short and high-power x-ray free-electron-laser pulses based on superradiance with a transversely tilted beam. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	47
10	Commissioning experience and beam physics measurements at the SwissFEL Injector Test Facility. Physical Review Accelerators and Beams, 2016, 19, .	1.6	41
11	Photocathode behavior during high current running in the Cornell energy recovery linac photoinjector. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	30
12	Measurements of the transverse emittance at the FLASH injector at DESY. Physical Review Special Topics: Accelerators and Beams, 2006, 9, .	1.8	25
13	Generation and Characterization of Intense Ultralow-Emittance Electron Beams for Compact X-Ray Free-Electron Lasers. Physical Review Letters, 2019, 123, 234801.	7.8	19
14	Long-Term Femtosecond Timing Link Stabilization Using a Single-Crystal Balanced Cross-Correlator. , 2007, , .		4
15	Observation of two-dimensional longitudinal-transverse correlations in an electron beam by laser-electron interactions. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	4
16	Sub-10 femtosecond stabilization of a fiber-link using a balanced optical cross-correlator. , 2007, , .		3
17	Beam loading compensation using real time bunch charge information from toroid monitor at flash. , 2007, , .		2
18	Design and Magnetic Performance of Small Aperture Prototype Quadrupoles for the SwissFEL at the Paul Scherrer Institut. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	2

#	ARTICLE	IF	CITATIONS
19	Beam profile measurements and analysis at FLASH. , 2007, , .		1
20	Status of the laser master oscillator system at FLASH. , 2007, , .		1
21	Loss monitoring for undulator protection at SwissFEL. Physical Review Accelerators and Beams, 2020, 23, .	1.6	1
22	Large Scale, Femtosecond Timing Distribution. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
23	Large-Scale, Long-Term Stable Femtosecond Timing Distribution and Synchronization Systems. LEOS Summer Topical Meeting, 2007, , .	0.0	0
24	Influence of erbium-doped fiber amplifiers on the timing stability of optical pulse trains. , 2008, , .		0