

Henrik Loos

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

5,063
citations

24
h-index

53
g-index

53
ext. papers

5,672
ext. citations

5.7
avg, IF

4.05
L-index

#	Paper	IF	Citations
46	First lasing and operation of an Ångström-wavelength free-electron laser. <i>Nature Photonics</i> , 2010 , 4, 641-647	33.9	2216
45	Demonstration of self-seeding in a hard-X-ray free-electron laser. <i>Nature Photonics</i> , 2012 , 6, 693-698	33.9	473
44	Generation of GW radiation pulses from a VUV free-electron laser operating in the femtosecond regime. <i>Physical Review Letters</i> , 2002 , 88, 104802	7.4	268
43	Measurements and simulations of ultralow emittance and ultrashort electron beams in the linac coherent light source. <i>Physical Review Letters</i> , 2009 , 102, 254801	7.4	243
42	Ultrafast time-resolved electron diffraction with megavolt electron beams. <i>Applied Physics Letters</i> , 2006 , 89, 184109	3.4	174
41	Commissioning the Linac Coherent Light Source injector. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2008 , 11,		168
40	Few-femtosecond time-resolved measurements of X-ray free-electron lasers. <i>Nature Communications</i> , 2014 , 5, 3762	17.4	157
39	First ultraviolet high-gain harmonic-generation free-electron laser. <i>Physical Review Letters</i> , 2003 , 91, 074801	7.4	150
38	High-intensity double-pulse X-ray free-electron laser. <i>Nature Communications</i> , 2015 , 6, 6369	17.4	146
37	Experimental demonstration of a soft x-ray self-seeded free-electron laser. <i>Physical Review Letters</i> , 2015 , 114, 054801	7.4	125
36	Measurements of the linac coherent light source laser heater and its impact on the x-ray free-electron laser performance. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2010 , 13,		108
35	Intense terahertz pulses from SLAC electron beams using coherent transition radiation. <i>Review of Scientific Instruments</i> , 2013 , 84, 022701	1.7	105
34	A new powerful source for coherent VUV radiation: Demonstration of exponential growth and saturation at the TTF free-electron laser. <i>European Physical Journal D</i> , 2002 , 20, 149-156	1.3	86
33	Femtosecond x-ray pulse characterization in free-electron lasers using a cross-correlation technique. <i>Physical Review Letters</i> , 2012 , 109, 254802	7.4	73
32	Single-cycle terahertz pulses with >0.2 V/field amplitudes via coherent transition radiation. <i>Applied Physics Letters</i> , 2011 , 99, 141117	3.4	63
31	Femtosecond x-ray pulse temporal characterization in free-electron lasers using a transverse deflector. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011 , 14,		53
30	Photon beamlines and diagnostics at LCLS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 635, S6-S11	1.2	46

29	Terahertz laser modulation of electron beams. <i>Journal of Applied Physics</i> , 2009 , 105, 053304	2.5	42
28	Measurements and modeling of coherent synchrotron radiation and its impact on the Linac Coherent Light Source electron beam. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009 , 12,		40
27	Generating femtosecond X-ray pulses using an emittance-spoiling foil in free-electron lasers. <i>Applied Physics Letters</i> , 2015 , 107, 191104	3.4	39
26	Coherent-radiation spectroscopy of few-femtosecond electron bunches using a middle-infrared prism spectrometer. <i>Physical Review Letters</i> , 2013 , 111, 184801	7.4	36
25	Negative Pressures and Spallation in Water Drops Subjected to Nanosecond Shock Waves. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2055-62	6.4	33
24	Second and third harmonic measurements at the linac coherent light source. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011 , 14,		31
23	Subpicosecond compression by velocity bunching in a photoinjector. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2003 , 6,		26
22	Beam shaping to improve the free-electron laser performance at the Linac Coherent Light Source. <i>Physical Review Accelerators and Beams</i> , 2016 , 19,	1.8	22
21	First SASE and seeded FEL lasing of the NSLS DUV FEL at 266 and 400nm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 507, 15-18	1.2	19
20	The optical design of the soft x-ray self seeding at LCLS 2013 ,		13
19	Electron beam modulation using a laser-driven photocathode. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 507, 498-501	1.2	13
18	Measurements and analysis of a high-brightness electron beam collimated in a magnetic bunch compressor. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015 , 18,		13
17	Longitudinal phase space tomography at the SLAC gun test facility and the BNL DUV-FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 189-193	1.2	11
16	First lasing of the Darmstadt cw free electron laser. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 429, 21-26	1.2	11
15	Experimental study of a high-gain harmonic-generation free-electron laser in the ultraviolet. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2004 , 7,		10
14	Chirped pulse amplification of HGHG-FEL at DUV-FEL facility at BNL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 467-470	1.2	9
13	Observation of SASE and amplified seed of the DUV-FEL at BNL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 507, 392-395	1.2	7
12	LCLS injector drive laser 2007 ,		5

11	Experiments with electron beam modulation at the DUVFEL accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 397-401	1.2	5
10	X-ray free electron laser tuning for variable-gap undulators. <i>Physical Review Accelerators and Beams</i> , 2019 , 22,	1.8	5
9	Below gap optical absorption in GaAs driven by intense, single-cycle coherent transition radiation. <i>Optics Express</i> , 2014 , 22, 17423-9	3.3	4
8	THE S-BAND 1.6 CELL RF GUN CORRELATED ENERGY SPREAD DEPENDENCE ON Γ AND 0 MODE RELATIVE AMPLITUDE. <i>International Journal of Modern Physics A</i> , 2007 , 22, 4061-4068	1.2	4
7	Longitudinal phase space tomography and its implementation in energy recovery linacs. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 557, 309-313	1.2	3
6	Ultraviolet high-gain harmonic-generation free-electron laser at BNL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 528, 436-442	1.2	2
5	Improved electron beam transport and diagnosis system for the Darmstadt IR-FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995 , 358, ABS20-ABS21	1.2	2
4	Relative bunch length monitor for the Linac Coherent Light Source (LCLS) using coherent edge radiation 2007 ,		1
3	Initial commissioning experience with the LCLS injector 2007 ,		1
2	Single Shot Electron Diffraction Experiment Using a Sub ps MeV Electron Source. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1432-1433	0.5	
1	Ultraviolet high-gain harmonic-generation free-electron laser at BNL 2004 , 436-442		