

Henrik Loos

List of Publications by Year in descending order

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53
papers

6,108
citations

236612

25
h-index

264894

42
g-index

53
all docs

53
docs citations

53
times ranked

4286
citing authors

#	ARTICLE	IF	CITATIONS
1	First lasing and operation of an Ångstrom-wavelength free-electron laser. Nature Photonics, 2010, 4, 641-647.	15.6	2,700
2	Demonstration of self-seeding in a hard-X-ray free-electron laser. Nature Photonics, 2012, 6, 693-698.	15.6	579
3	Generation of GW Radiation Pulses from a VUV Free-Electron Laser Operating in the Femtosecond Regime. Physical Review Letters, 2002, 88, 104802.	2.9	313
4	Measurements and Simulations of Ultralow Emittance and Ultrashort Electron Beams in the Linac Coherent Light Source. Physical Review Letters, 2009, 102, 254801.	2.9	280
5	Ultrafast time-resolved electron diffraction with megavolt electron beams. Applied Physics Letters, 2006, 89, 184109.	1.5	203
6	Commissioning the Linac Coherent Light Source injector. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	203
7	Few-femtosecond time-resolved measurements of X-ray free-electron lasers. Nature Communications, 2014, 5, 3762.	5.8	188
8	High-intensity double-pulse X-ray free-electron laser. Nature Communications, 2015, 6, 6369.	5.8	177
9	First Ultraviolet High-Gain Harmonic-Generation Free-Electron Laser. Physical Review Letters, 2003, 91, 074801.	2.9	175
10	Experimental Demonstration of a Soft X-Ray Self-Seeded Free-Electron Laser. Physical Review Letters, 2015, 114, 054801.	2.9	145
11	Intense terahertz pulses from SLAC electron beams using coherent transition radiation. Review of Scientific Instruments, 2013, 84, 022701.	0.6	127
12	Measurements of the linac coherent light source laser heater and its impact on the x-ray free-electron laser performance. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	121
13	A new powerful source for coherent VUV radiation: Demonstration of exponential growth and saturation at the TTF free-electron laser. European Physical Journal D, 2002, 20, 149-156.	0.6	103
14	Femtosecond X-Ray Pulse Characterization in Free-Electron Lasers Using a Cross-Correlation Technique. Physical Review Letters, 2012, 109, 254802.	2.9	90
15	Single-cycle terahertz pulses with $>0.2 \text{ V/\AA}$ field amplitudes via coherent transition radiation. Applied Physics Letters, 2011, 99, .	1.5	74
16	Femtosecond x-ray pulse temporal characterization in free-electron lasers using a transverse deflector. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	70
17	Photon beamlines and diagnostics at LCLS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, S6-S11.	0.7	54
18	Measurements and modeling of coherent synchrotron radiation and its impact on the Linac Coherent Light Source electron beam. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	49

#	ARTICLE	IF	CITATIONS
19	Terahertz laser modulation of electron beams. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	48
20	Generating femtosecond X-ray pulses using an emittance-spoiling foil in free-electron lasers. <i>Applied Physics Letters</i> , 2015, 107, 191104.	1.5	48
21	Second and third harmonic measurements at the linac coherent light source. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	46
22	Negative Pressures and Spallation in Water Drops Subjected to Nanosecond Shock Waves. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2055-2062.	2.1	40
23	Coherent-Radiation Spectroscopy of Few-Femtosecond Electron Bunches Using a Middle-Infrared Prism Spectrometer. <i>Physical Review Letters</i> , 2013, 111, 184801.	2.9	39
24	Subpicosecond compression by velocity bunching in a photoinjector. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2003, 6, .	1.8	32
25	Beam shaping to improve the free-electron laser performance at the Linac Coherent Light Source. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	0.6	31
26	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.	0.7	25
27	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.	0.7	15
28	The optical design of the soft x-ray self seeding at LCLS. <i>Proceedings of SPIE</i> , 2013, , .	0.8	15
29	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.	0.7	14
30	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, .	1.8	14
31	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.	0.7	11
32	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, .	1.8	10
33	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.	0.7	9
34	X-ray free electron laser tuning for variable-gap undulators. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	9
35	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.	0.7	7
36	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.	0.7	6

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37	LCLS injector drive laser. , 2007, , .		6
38	Simulations and Experiments of Electron Beams Pre-Modulated at the Photocathode. , 0, , .		5
39	THE S-BAND 1.6 CELL RF GUN CORRELATED ENERGY SPREAD DEPENDENCE ON β AND 0 MODE RELATIVE AMPLITUDE. International Journal of Modern Physics A, 2007, 22, 4061-4068.	0.5	4
40	Initial commissioning experience with the LCLS injector. , 2007, , .		4
41	Below gap optical absorption in GaAs driven by intense, single-cycle coherent transition radiation. Optics Express, 2014, 22, 17423.	1.7	4
42	Temporal E-Beam Shaping in an S-Band Accelerator. , 0, , .		3
43	Longitudinal phase space tomography and its implementation in energy recovery linacs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 557, 309-313.	0.7	3
44	Relative bunch length monitor for the Linac Coherent Light Source (LCLS) using coherent edge radiation. , 2007, , .		3
45	Improved electron beam transport and diagnosis system for the Darmstadt IR-FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 358, ABS20-ABS21.	0.7	2
46	Ultraviolet high-gain harmonic-generation free-electron laser at BNL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 528, 436-442.	0.7	2
47	Electron Bunch Compression and Coherent Effects at the SDL. AIP Conference Proceedings, 2002, , .	0.3	1
48	LCLS accelerator operation and measurement of electron beam parameters relevant for the X-ray beam. , 2013, , .		1
49	Single Shot Electron Diffraction Experiment Using a Sub ps MeV Electron Source. Microscopy and Microanalysis, 2006, 12, 1432-1433.	0.2	0
50	Measurements of compression and emittance growth after the first LCLS bunch compressor chicane. , 2007, , .		0
51	Coherent terahertz radiation source and user area at FACET. , 2012, , .		0
52	Coherent terahertz radiation source at FACET. , 2013, , .		0
53	Ultraviolet high-gain harmonic-generation free-electron laser at BNL. , 2004, , 436-442.		0