## Heinz-Dieter Nuhn

## List of Publications by Year in Descending Order

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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.

48 4,230 50 21 h-index g-index citations papers 4,769 4.8 50 3.79 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
48	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	2
47	Beam shaping to improve the free-electron laser performance at the Linac Coherent Light Source. <i>Physical Review Accelerators and Beams</i> , <b>2016</b> , 19,	1.8	22
46	Femtosecond X-ray magnetic circular dichroism absorption spectroscopy at an X-ray free electron laser. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 033110	1.7	42
45	Circular dichroism measurements at an x-ray free-electron laser with polarization control. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 083113	1.7	21
44	Polarization control in an X-ray free-electron laser. <i>Nature Photonics</i> , <b>2016</b> , 10, 468-472	33.9	89
43	Demonstration of single-crystal self-seeded two-color x-ray free-electron lasers. <i>Physical Review Letters</i> , <b>2014</b> , 113, 254801	7.4	76
42	Experimental demonstration of femtosecond two-color x-ray free-electron lasers. <i>Physical Review Letters</i> , <b>2013</b> , 110, 134801	7.4	180
41	Multicolor operation and spectral control in a gain-modulated x-ray free-electron laser. <i>Physical Review Letters</i> , <b>2013</b> , 111, 134801	7.4	54
40	Demonstration of self-seeding in a hard-X-ray free-electron laser. <i>Nature Photonics</i> , <b>2012</b> , 6, 693-698	33.9	473
39	Modeling and multidimensional optimization of a tapered free electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2012</b> , 15,		44
38	Photon beamlines and diagnostics at LCLS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>2011</b> , 635, S6-S11	1.2	46
37	First lasing and operation of an figstrom-wavelength free-electron laser. <i>Nature Photonics</i> , <b>2010</b> , 4, 641-647	33.9	2216
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> , <b>2010</b> , 13,		108
35	Measurements and simulations of ultralow emittance and ultrashort electron beams in the linac coherent light source. <i>Physical Review Letters</i> , <b>2009</b> , 102, 254801	7.4	243
34	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> , <b>2009</b> , 12,		40
33	From storage rings to free electron lasers for hard x-rays. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S3413-S3421	1.8	4
32	Start-End Simulations for the LCLS X-Ray Free-Electron Laser <b>2004</b> , II-93-II-94		

## (2000-2003)

31	Measurements of nonlinear harmonic radiation and harmonic microbunching in a visible SASE FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2003</b> , 507, 445-449	1.2	5
30	Results of the VISA SASE FEL experiment at 840nm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>2003</b> , 507, 417-42	1 <sup>1.2</sup>	8
29	Properties of the ultrashort gain length, self-amplified spontaneous emission free-electron laser in the linear regime and saturation. <i>Physical Review E</i> , <b>2003</b> , 67, 066501	2.4	28
28	Measurements of nonlinear harmonic radiation and harmonic microbunching in a visible SASE FEL <b>2003</b> , 445-449		
27	Results of the VISA SASE FEL experiment at 840 nm <b>2003</b> , 417-421		
26	Characterization of an 800 nm SASE FEL at saturation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 483, 24-28	1.2	10
25	The sensitivity of nonlinear harmonic generation to electron beam quality in free electron lasers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 483, 101-106	1.2	9
24	Start-to-end simulation of self-amplified spontaneous emission free electron lasers from the gun through the undulator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 483, 268-272	1.2	93
23	Fundamental and harmonic microbunching in a high-gain self-amplified spontaneous-emission free-electron laser. <i>Physical Review E</i> , <b>2002</b> , 66, 036503	2.4	14
22	Experimental characterization of nonlinear harmonic radiation from a visible self-amplified spontaneous emission free-electron laser at saturation. <i>Physical Review Letters</i> , <b>2002</b> , 88, 204801	7.4	80
21	Impact of electron beam quality on nonlinear harmonic generation in high-gain free-electron lasers. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2002</b> , 5,		14
20	Initial gain measurements of an 800nm SASE FEL, VISA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 475, 339-34	2 <sup>1.2</sup>	2
19	Optimization of an X-ray SASE-FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A:</i> Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2001</b> , 475, 328-333	1.2	7
18	Optimization of the design for the LCLS undulator line. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 475, 323-32	7 <sup>1.2</sup>	16
17	Visible-infrared self-amplified spontaneous emission amplifier free electron laser undulator. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2001</b> , 4,		11
16	The effect of wiggler imperfections on nonlinear harmonic generation in free-electron lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>2001</b> , 37, 790-793	2	7
15	Linac-based short wavelength fels: The challenges to be overcome to produce the ultimate x-ray sourceline x-ray laser. <i>Synchrotron Radiation News</i> , <b>2000</b> , 13, 18-32	0.6	7
14	Technological challenges to X-ray FELs. <i>Nuclear Instruments and Methods in Physics Research,</i> Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2000</b> , 445, 149-154	1.2	2

13	Status and initial commissioning of a high gain 800 nm SASE FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>2000</b> , 445, 160-163	1.2	2
12	Multi-dimensional free-electron laser simulation codes: a comparison study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2000</b> , 445, 110-115	1.2	21
11	FEL simulations for the LCLS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1999</b> , 429, 249-256	1.2	7
10	Beam-based alignment for the LCLS FEL undulator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 429, 407-413	3 <sup>1.2</sup>	34
9	Research and development toward a 4.51.5 linac coherent light source (LCLS) at SLAC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1996</b> , 375, 274-283	1.2	61
8	Parametric study of an X-ray FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1995</b> , 358, 60-63	1.2	8
7	The SLAC soft X-ray high power FEL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1994</b> , 341, 326-330	1.2	30
6	Short wavelength FELs using the SLAC linac. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1994</b> , 347, 199-205	1.2	34
5	A 2 to 4 nm high power FEL on the SLAC linac. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1993</b> , 331, 223-227	1.2	41
4	Short wavelength FELs on large storage rings. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1992</b> , 319, 89-96	1.2	10
3	40 IFEL designs for the PEP storage ring. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>1992</b> , 318, 730-735	1.2	2
2	Start-to-end jitter simulations of the linac coherent light source		2
1			5