

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.

38 papers	3,688 citations	14 h-index	39 g-index
39 ext. papers	4,170 ext. citations	5 avg, IF	3.97 L-index

#	Paper	IF	Citations
38	First lasing and operation of an Ångström-wavelength free-electron laser. <i>Nature Photonics</i> , <b>2010</b> , 4, 641-647	33.9	2216
37	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
36	Commissioning the Linac Coherent Light Source injector. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2008</b> , 11,		168
35	Suppression of microbunching instability in the linac coherent light source. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2004</b> , 7,		164
34	Few-femtosecond time-resolved measurements of X-ray free-electron lasers. <i>Nature Communications</i> , <b>2014</b> , 5, 3762	17.4	157
33	Experimental demonstration of a soft x-ray self-seeded free-electron laser. <i>Physical Review Letters</i> , <b>2015</b> , 114, 054801	7.4	125
32	Femtosecond x-ray pulse characterization in free-electron lasers using a cross-correlation technique. <i>Physical Review Letters</i> , <b>2012</b> , 109, 254802	7.4	73
31	Theory of high gain harmonic generation: an analytical estimate. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2002</b> , 483, 493-498	1.2	48
30	Modeling and multidimensional optimization of a tapered free electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2012</b> , 15,		44
29	Experimental demonstration of fresh bunch self-seeding in an X-ray free electron laser. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 154101	3.4	33
28	High-gain Thompson-scattering x-ray free-electron laser by time-synchronic laterally tilted optical wave. <i>Physical Review Letters</i> , <b>2013</b> , 110, 064802	7.4	32
27	High efficiency, multiterawatt x-ray free electron lasers. <i>Physical Review Accelerators and Beams</i> , <b>2016</b> , 19,	1.8	31
26	Interplay of the chirps and chirped pulse compression in a high-gain seeded free-electron laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 484	1.7	20
25	High-brightness X-ray free-electron laser with an optical undulator by pulse shaping. <i>Optics Express</i> , <b>2013</b> , 21, 32013-8	3.3	15
24	Terawatt x-ray free-electron-laser optimization by transverse electron distribution shaping. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2014</b> , 17,		14
23	Analytical analysis of longitudinal space charge effects for a bunched beam with radial dependence. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2008</b> , 11,		13
22	Multi-dimensional optimization of a terawatt seeded tapered Free Electron Laser with a Multi-Objective Genetic Algorithm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2017</b> , 846, 56-63	1.2	10

21	Influence of an imperfect energy profile on a seeded free electron laser performance. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2010</b> , 13,		8
20	Exponential growth, superradiance, and tunability of a seeded free electron laser. <i>Optics Express</i> , <b>2008</b> , 16, 3255-60	3.3	6
19	Eigenmodes and mode competition in a high-gain free-electron laser including alternating-gradient focusing. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 475, 79-85	1.2	6
18	Transient thermal stress wave and vibrational analyses of a thin diamond crystal for X-ray free-electron lasers under high-repetition-rate operation. <i>Journal of Synchrotron Radiation</i> , <b>2018</b> , 25, 166-176	2.4	5
17	Thermal loading on self-seeding monochromators in x-ray free electron lasers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2020</b> , 969, 163936	1.2	4
16	Sideband instability analysis based on a one-dimensional high-gain free electron laser model. <i>Physical Review Accelerators and Beams</i> , <b>2017</b> , 20,	1.8	4
15	Area-preserving scheme for efficiency enhancement in single-pass tapered free electron lasers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2019</b> , 913, 107-119	1.2	4
14	Electron beam energy and bunch length feed forward control studies using an artificial neural network at the Linac coherent light source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 610, 629-635	1.2	3
13	The detuning effect of crystal monochromator in self-seeding and oscillator free electron laser. <i>Optics Express</i> , <b>2019</b> , 27, 13229-13239	3.3	3
12	Analytical model for monochromator performance characterizations under thermal load. <i>Optics Express</i> , <b>2020</b> , 28, 30075-30084	3.3	3
11	Theoretical formulation of phase space microbunching instability in the presence of intrabeam scattering for single-pass or recirculation accelerators. <i>Physical Review Accelerators and Beams</i> , <b>2020</b> , 23,	1.8	2
10	Single-pass high-gain tapered free-electron laser with transverse diffraction in the postsaturation regime. <i>Physical Review Accelerators and Beams</i> , <b>2018</b> , 21,	1.8	2
9	Dynamic pulse-to-pulse thermal load effects in pulse-train-mode self-seeded X-ray free-electron laser. <i>Journal of Synchrotron Radiation</i> , <b>2020</b> , 27, 1725-1729	2.4	1
8	Attosecond Coherence Time Characterization in Hard X-Ray Free-Electron Laser. <i>Scientific Reports</i> , <b>2020</b> , 10, 5961	4.9	1
7	Numerical characterization of quasi-steady thermal load for thin crystal at cryogenic temperature with nondiffusive heat transfer. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 144503	2.5	0
6	New mounting mechanism for cryogenically cooled thin crystal x-ray optics in high brightness high repetition rate free-electron laser applications. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 083904	1.7	0
5	Electromagnetically induced amplification via counter-rotating-wave terms in a three-level E-type system. <i>Physica Scripta</i> , <b>2019</b> , 94, 095104	2.6	
4	The seed energy fluctuation of hard X-ray self-seeding free electron laser. <i>AIP Advances</i> , <b>2019</b> , 9, 035254.	1.5	

- 3 Coherence time characterization method for hard X-ray free-electron lasers. *Optics Express*, **2020**, 28, 10928-10938 3.3
- 2 On the gauge transformation for the rotation of the singular string in the Dirac monopole theory. *International Journal of Modern Physics A*, **2021**, 36, 2150019 1.2
- 1 Two-stage reflective self-seeding scheme for high-repetition-rate X-ray free-electron lasers. *Journal of Synchrotron Radiation*, **2021**, 28, 44-51 2.4