Zhirong Huang

List of Publications by Year in descending order

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257450 168389 2,981 59 24 53 h-index citations g-index papers 60 60 60 2724 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Attosecond coherent electron motion in Auger-Meitner decay. Science, 2022, 375, 285-290.	12.6	40
2	Controllable X-Ray Pulse Trains from Enhanced Self-Amplified Spontaneous Emission. Physical Review Letters, 2021, 126, 104802.	7.8	18
3	Transverse Beam Emittance Measurement by Undulator Radiation Power Noise. Physical Review Letters, 2021, 126, 134802.	7.8	11
4	Measurements of undulator radiation power noise and comparison with ab \hat{A} initio calculations. Physical Review Accelerators and Beams, 2021, 24, .	1.6	8
5	Site-specific interrogation of an ionic chiral fragment during photolysis using an X-ray free-electron laser. Communications Chemistry, 2021, 4, .	4.5	17
6	Attosecond transient absorption spooktroscopy: a ghost imaging approach to ultrafast absorption spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 2704-2712.	2.8	41
7	Tunable isolated attosecond X-ray pulses with gigawatt peak power from a free-electron laser. Nature Photonics, 2020, 14, 30-36.	31.4	283
8	Laguerre-Gaussian Mode Laser Heater for Microbunching Instability Suppression in Free-Electron Lasers. Physical Review Letters, 2020, 124, 134801.	7.8	16
9	Experimental demonstration of enhanced self-amplified spontaneous emission by photocathode temporal shaping and self-compression in a magnetic wiggler. New Journal of Physics, 2020, 22, 083030.	2.9	13
10	Simulation analysis and optimization of fresh-slice multistage free-electron lasers. Physical Review Accelerators and Beams, 2020, 23, .	1.6	4
11	Statistical properties of spontaneous synchrotron radiation with arbitrary degree of coherence. Physical Review Accelerators and Beams, 2020, 23, .	1.6	11
12	Refractive Guide Switching a Regenerative Amplifier Free-Electron Laser for High Peak and Average Power Hard X Rays. Physical Review Letters, 2020, 125, 254801.	7.8	25
13	Enhancing Linear Accelerator and X-ray Free Electron Laser Brightness with Tailored Laser-Electron Interactions. , 2020, , .		O
14	Imprinting Laser-Particle Micro-correlations to enhance X-ray Free Electron Laser Performance. , 2020, , .		0
15	Recent advances in ultrafast X-ray sources. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180384.	3.4	89
16	Study of a free-electron laser driven by a laser-plasma accelerated beam at Peking University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 193-198.	1.6	2
17	Phase-Stable Self-Modulation of an Electron Beam in a Magnetic Wiggler. Physical Review Letters, 2019, 123, 214801.	7.8	17
18	Double chirp-taper x-ray free-electron laser for attosecond pump-probe experiments. Physical Review Accelerators and Beams, 2019, 22, .	1.6	17

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19	Experimental observations of seed growth and accompanying pedestal contamination in a self-seeded, soft x-ray free-electron laser. Physical Review Accelerators and Beams, 2019, 22, .	1.6	18
20	Generation and Characterization of Attosecond Pulses from an X-ray Free-electron Laser. , 2019, , .		0
21	Generation of High-Power High-Intensity Short X-Ray Free-Electron-Laser Pulses. Physical Review Letters, 2018, 120, 014801.	7.8	31
22	Microbunch Rotation and Coherent Undulator Radiation from a Kicked Electron Beam. Physical Review X , 2018, 8 , .	8.9	15
23	High-Power Femtosecond Soft X Rays from Fresh-Slice Multistage Free-Electron Lasers. Physical Review Letters, 2018, 120, 264801.	7.8	38
24	Dispersion-Based Fresh-Slice Scheme for Free-Electron Lasers. Physical Review Letters, 2018, 120, 264802.	7.8	21
25	Characterizing isolated attosecond pulses with angular streaking. Optics Express, 2018, 26, 4531.	3.4	35
26	Laguerre-Gaussian and beamlet array as second generation laser heater profiles. Physical Review Accelerators and Beams, 2018, 21, .	1.6	14
27	Time-domain analysis of attosecond pulse generation in an x-ray free-electron laser. Physical Review Accelerators and Beams, 2018, 21, .	1.6	7
28	Compact beam transport system for free-electron lasers driven by a laser plasma accelerator. Physical Review Accelerators and Beams, 2017, 20, .	1.6	23
29	Effect of an angular trajectory kick in a high-gain free-electron laser. Physical Review Accelerators and Beams, 2017, 20, .	1.6	5
30	Reversible beam heater for suppression of microbunching instability by transverse gradient undulators. Physical Review Accelerators and Beams, 2017, 20, .	1.6	5
31	Measurements of wake-induced electron beam deflection in a dechirper at the Linac Coherent Light Source. Physical Review Accelerators and Beams, 2017, 20, .	1.6	14
32	Statistical characterization of an x-ray FEL in the spectral domain. Proceedings of SPIE, 2017, , .	0.8	1
33	Polarization control in an X-ray free-electron laser. Nature Photonics, 2016, 10, 468-472.	31.4	116
34	Linac Coherent Light Source: The first five years. Reviews of Modern Physics, 2016, 88, .	45.6	477
35	Fresh-slice multicolour X-ray free-electron lasers. Nature Photonics, 2016, 10, 745-750.	31.4	131
36	Microbunching-instability-induced sidebands in a seeded free-electron laser. Physical Review Accelerators and Beams, 2016, 19, .	1.6	24

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#	Article	IF	CITATIONS
37	Generation of subterawatt-attosecond pulses in a soft x-ray free-electron laser. Physical Review Accelerators and Beams, 2016, 19 , .	1.6	14
38	Eigenmode analysis of a high-gain free-electron laser based on a transverse gradient undulator. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	9
39	Electron beam energy chirp control with a rectangular corrugated structure at the Linac Coherent Light Source. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	37
40	3D theory of a high-gain free-electron laser based on a transverse gradient undulator. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	18
41	An X-ray Free Electron Laser Driven by an Ultimate Storage Ring. Synchrotron Radiation News, 2013, 26, 39-41.	0.8	12
42	Purified self-amplified spontaneous emission free-electron lasers with slippage-boosted filtering. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	36
43	High wavevector temporal speckle correlations at the Linac Coherent Light Source. Optics Express, 2012, 20, 9790.	3.4	24
44	Compact X-ray Free-Electron Laser from a Laser-Plasma Accelerator Using a Transverse-Gradient Undulator. Physical Review Letters, 2012, 109, 204801.	7.8	183
45	SACLA hard-X-ray compact FEL. Nature Photonics, 2012, 6, 505-506.	31.4	39
46	Two-bunch self-seeding for narrow-bandwidth hard x-ray free-electron lasers. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	30
47	Statistical analysis of crossed undulator for polarization control in a self-amplified spontaneous emission free electron laser. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	38
48	Review of x-ray free-electron laser theory. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	433
49	Fully Coherent X-Ray Pulses from a Regenerative-Amplifier Free-Electron Laser. Physical Review Letters, 2006, 96, 144801.	7.8	60
50	Impact of the wiggler coherent synchrotron radiation impedance on the beam instability and damping ring optimization. Physical Review Special Topics: Accelerators and Beams, 2003, 6, .	1.8	3
51	Formulas for coherent synchrotron radiation microbunching in a bunch compressor chicane. Physical Review Special Topics: Accelerators and Beams, 2002, 5, .	1.8	132
52	Impact of electron beam quality on nonlinear harmonic generation in high-gain free-electron lasers. Physical Review Special Topics: Accelerators and Beams, 2002, 5, .	1.8	16
53	The sensitivity of nonlinear harmonic generation to electron beam quality in free electron lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 101-106.	1.6	11
54	Transverse and temporal characteristics of a high-gain free-electron laser in the saturation regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 504-509.	1.6	12

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55	Three-dimensional analysis of harmonic generation in high-gain free-electron lasers. Physical Review E, 2000, 62, 7295-7308.	2.1	134
56	Effects of Focusing on Radiation Damping and Quantum Excitation in Electron Storage Rings. Physical Review Letters, 1998, 80, 2318-2321.	7.8	5
57	Suppression of radiation excitation in focusing environment. , 1997, , .		1
58	A semi-classical treatment of channeling radiation reaction. Nuclear Instruments & Methods in Physics Research B, 1996, 119, 192-198.	1.4	5
59	Radiation Reaction in a Continuous Focusing Channel. Physical Review Letters, 1995, 74, 1759-1762.	7.8	32