Lixin Yan

List of Publications by Year
in descending order

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Version: 2024-02-01

61	805	623734	526287
papers	citations	14	27
		h-index	g-index

62	62	62	744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation of first hard X-ray pulse at Tsinghua Thomson Scattering X-ray Source. Review of Scientific Instruments, 2013, 84, 053301.	1.3	81
2	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	1.3	78
3	Terahertz Streaking of Few-Femtosecond Relativistic Electron Beams. Physical Review X, 2018, 8, .	8.9	61
4	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	1.3	58
5	Demonstration of Nonlinear-Energy-Spread Compensation in Relativistic Electron Bunches with Corrugated Structures. Physical Review Letters, 2015, 114, 114801.	7.8	48
6	Tsinghua Thomson scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S70-S74.	1.6	47
7	Cascaded high-gradient terahertz-driven acceleration of relativistic electron beams. Nature Photonics, 2021, 15, 426-430.	31.4	44
8	Tunable High-Intensity Electron Bunch Train Production Based on Nonlinear Longitudinal Space Charge Oscillation. Physical Review Letters, 2016, 116, 184801.	7.8	38
9	Experimental demonstration of the mechanism of steady-state microbunching. Nature, 2021, 590, 576-579.	27.8	38
10	Development of S-band photocathode RF guns at Tsinghua University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 834, 98-107.	1.6	28
11	Recent progress of phase-contrast imaging at Tsinghua Thomson-scattering X-ray source. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 364-369.	1.4	21
12	Efficient generation of a high-field terahertz pulse train in bulk lithium niobate crystals by optical rectification. Optics Express, 2021, 29, 9624.	3.4	19
13	Generation of high-power, tunable terahertz radiation from laser interaction with a relativistic electron beam. Physical Review Accelerators and Beams, 2017, 20, .	1.6	19
14	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	1.3	14
15	Observation of coherent Smith-Purcell and transition radiation driven by single bunch and micro-bunched electron beams. Applied Physics Letters, 2018, 112, .	3.3	14
16	UV pulse trains by Î±-BBO crystal stacking for the production of THz-rap-rate electron bunches. Journal of Plasma Physics, 2012, 78, 429-431.	2.1	12
17	Demonstration of Single-Shot High-Quality Cascaded High-Energy-Electron Radiography using Compact Imaging Lenses Based on Permanent-Magnet Quadrupoles. Physical Review Applied, 2019, 11, .	3.8	12
18	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	1.3	11

#	Article	IF	Citations
19	Selective excitation and control of coherent terahertz Smith-Purcell radiation by high-intensity period-tunable train of electron micro-bunches. Applied Physics Letters, 2018, 113, 171104.	3.3	10
20	High time resolution beam-based measurement of the rf-to-laser jitter in a photocathode rf gun. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	9
21	Numerical and Experimental Studies on Frequency Characteristics of $hbox{TE}_{11}$-Mode Enhanced Coaxial Vircator. IEEE Transactions on Plasma Science, 2011, 39, 1762-1767.	1.3	8
22	Precise control and measurement of Laserâ€“RF synchronization for Thomson-scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S137-S140.	1.6	8
23	Soft X-ray generation experiment at the Tsinghua Thomson scattering X-ray source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S168-S171.	1.6	8
24	Experimental feasibility of dual-energy computed tomography based on the Thomson scattering X-ray source. Journal of Synchrotron Radiation, 2018, 25, 1797-1802.	2.4	8
25	Experiments on bright-field and dark-field high-energy electron imaging with thick target material. Physical Review Accelerators and Beams, 2018, 21, .	1.6	8
26	Single-shot spatial-temporal electric field measurement of intense terahertz pulses from coherent transition radiation. Physical Review Accelerators and Beams, 2020, 23, .	1.6	8
27	Commissioning the photoinjector of a gamma-ray light source. Physical Review Accelerators and Beams, 2019, 22, .	1.6	8
28	UV pulse shaping for the photocathode RF gun. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S127-S129.	1.6	7
29	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	1.3	7
30	Temporal profile monitor based on electro-optic spatial decoding for low-energy bunches. Physical Review Accelerators and Beams, 2017, 20, .	1.6	7
31	Observation of temporal evolution following laser triggered rf breakdown in vacuum. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
32	Phase control with two-beam interferometry method in a terahertz dielectric wakefield accelerator. Applied Physics Letters, 2017, 111, .	3.3	6
33	Non-perturbing THz generation at the Tsinghua University Accelerator Laboratory 31 MeV electron beamline. Review of Scientific Instruments, 2018, 89, 093301.	1.3	6
34	Monitoring of electron bunch length by using Terahertz coherent transition radiation. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 157-161.	1.4	5
35	High-precision phase detection in femtosecond timing and synchronization system for TXGLS. Measurement Science and Technology, 2018, 29, 065011.	2.6	5
36	Strong enhancement of coherent terahertz radiation by target ablation using picosecond laser pulses. Physics of Plasmas, 2020, 27, 113104.	1.9	5

#	Article	IF	Citations
37	Generation of Tunable 10-mJ-Level Terahertz Pulses through Nonlinear Plasma Wakefield Modulation. Physical Review Applied, 2021, 15, .	3.8	5
38	High power THz source based on coherent radiation of picosecond relativistic electron bunch train. Science China: Physics, Mechanics and Astronomy, 2011, 54, 197-200.	5.1	4
39	Measurement of beam waist for an optical cavity based on Gouy phase. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 6-10.	1.6	4
40	Single-shot electro-optic experiments for electron bunch diagnostics at Tsinghua Accelerator Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 834, 183-186.	1.6	4
41	Optimization of the Compact Gamma-ray Source Based on Inverse Compton Scattering Design. , 2018, , .		3
42	Absolute Energy Measurement of Single-Shot Terahertz Pulse with a Thermal Detector. , 2012, , .		3
43	Thomson scattering x-ray source: a novel tool for monochromatic computed tomography. , 2017, , .		2
44	Slice emittance measurement for photocathode RF gun with solenoid scanning and RF deflecting cavity. Science China: Physics, Mechanics and Astronomy, 2011, 54, 283-286.	5.1	1
45	Reconstruction of the three-dimensional bunch profile by tomography technique with RF deflecting cavity. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 752, 36-41.	1.6	1
46	Measurement of pre-bunched beamâ€™s longitudinal form factor based on radiation from a tunable-gap undulator. Review of Scientific Instruments, 2018, 89, 013304.	1.3	1
47	Longitudinal phase space manipulation with planar corrugated wakefield structures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164819.	1.6	1
48	Near-ideal energy modulator for tunable THz pulse generation using sectioned hollow channel plasma system. Physics of Plasmas, 2021, 28, 103101.	1.9	1
49	Theoretical analysis and simulation study of the deep overcompression mode of velocity bunching for a comblike electron bunch train. Physical Review Accelerators and Beams, 2018, 21, .	1.6	1
50	K-edge imaging based on a Thomson scattering x-ray source. , 2022, , .		1
51	Efficient free electron laser. Nature Photonics, 0, , .	31.4	1
52	Status of the photocathode RF gun at tsinghua university. , 2007, , .		0
53	Measurements of laser temporal profile and polarization-dependent quantum efficiency. , 2007, , .		0
54	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0

#	Article	IF	Citations
55	Self-phase modulation of an ultra-short laser pulse from laser breakdown plasma. , 2007, , .		0
56	Design and development of laser-RF Synchronization system for Thomson-scattering X-ray source at Tsinghua University. , 2009, , .		0
57	Experimental results on the tunable superradiate THz radiation from the undulator in Tsinghua University beamline. , 2017, , .		0
58	A pulse-to-pulse timing jitter measurement between two synchronized amplified laser beams for TTX. Review of Scientific Instruments, 2017, 88, 063307.	1.3	0
59	Narrowband THz generation by ultra-relativistic beam. , 2018, , .		0
60	Twin-bunch compression via velocity bunching in a traveling wave accelerator. Physical Review Accelerators and Beams, 2018, 21, .	1.6	0
61	A novel THz generation scheme based on plasma-beam interaction. , 2020, , .		0