Lixin Yan

List of Publications by Year
in descending order

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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	K-edge imaging based on a Thomson scattering x-ray source. , 2022, , .		1
2	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
3	Experimental demonstration of the mechanism of steady-state microbunching. Nature, 2021, 590, 576-579.	27.8	38
4	Cascaded high-gradient terahertz-driven acceleration of relativistic electron beams. Nature Photonics, 2021, 15, 426-430.	31.4	44
5	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
6	Generation of Tunable 10-mJ-Level Terahertz Pulses through Nonlinear Plasma Wakefield Modulation. Physical Review Applied, 2021, 15, .	3.8	5
7	Near-ideal energy modulator for tunable THz pulse generation using sectioned hollow channel plasma system. Physics of Plasmas, 2021, 28, 103101.	1.9	1
8	Strong enhancement of coherent terahertz radiation by target ablation using picosecond laser pulses. Physics of Plasmas, 2020, 27, 113104.	1.9	5
9	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
10	A novel THz generation scheme based on plasma-beam interaction. , 2020, , .		0
11	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
12	Commissioning the photoinjector of a gamma-ray light source. Physical Review Accelerators and Beams, 2019, 22, .	1.6	8
13	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
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	High-precision phase detection in femtosecond timing and synchronization system for TXGLS. Measurement Science and Technology, 2018, 29, 065011.	2.6	5
17	Optimization of the Compact Gamma-ray Source Based on Inverse Compton Scattering Design. , 2018, , .		3
18	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

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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	Non-perturbing THz generation at the Tsinghua University Accelerator Laboratory 31 MeV electron beamline. Review of Scientific Instruments, 2018, 89, 093301.	1.3	6
21	Narrowband THz generation by ultra-relativistic beam. , 2018, , .		0
22	Terahertz Streaking of Few-Femtosecond Relativistic Electron Beams. Physical Review X, 2018, 8, .	8.9	61
23	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
24	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
25	Twin-bunch compression via velocity bunching in a traveling wave accelerator. Physical Review Accelerators and Beams, 2018, 21, .	1.6	0
26	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
27	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	1.3	11
28	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
29	Experimental results on the tunable superradiate THz radiation from the undulator in Tsinghua University beamline. , 2017, , .		0
30	Phase control with two-beam interferometry method in a terahertz dielectric wakefield accelerator. Applied Physics Letters, 2017, 111, .	3.3	6
31	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
32	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
33	Temporal profile monitor based on electro-optic spatial decoding for low-energy bunches. Physical Review Accelerators and Beams, 2017, 20, .	1.6	7
34	Thomson scattering x-ray source: a novel tool for monochromatic computed tomography. , 2017, , .		2
35	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
36	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

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37	Tunable High-Intensity Electron Bunch Train Production Based on Nonlinear Longitudinal Space Charge Oscillation. Physical Review Letters, 2016, 116, 184801.	7.8	38
38	Demonstration of Nonlinear-Energy-Spread Compensation in Relativistic Electron Bunches with Corrugated Structures. Physical Review Letters, 2015, 114, 114801.	7.8	48
39	Observation of temporal evolution following laser triggered rf breakdown in vacuum. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
40	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
41	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	1.3	7
42	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
43	Generation of first hard X-ray pulse at Tsinghua Thomson Scattering X-ray Source. Review of Scientific Instruments, 2013, 84, 053301.	1.3	81
44	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
45	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
46	Absolute Energy Measurement of Single-Shot Terahertz Pulse with a Thermal Detector. , 2012, , .		3
47	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
48	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
49	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
50	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
51	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
52	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
53	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	1.3	58
54	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	1.3	78

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55	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
56	Design and development of laser-RF Synchronization system for Thomson-scattering X-ray source at Tsinghua University. , 2009, , .		0
57	Status of the photocathode RF gun at tsinghua university. , 2007, , .		0
58	Measurements of laser temporal profile and polarization-dependent quantum efficiency. , 2007, , .		0
59	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0
60	Self-phase modulation of an ultra-short laser pulse from laser breakdown plasma. , 2007, , .		0
61	Efficient free electron laser. Nature Photonics, 0, , .	31.4	1