

Ying-Chao Du

List of Publications by Year in descending order

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all docs

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docs citations

77
times ranked

715
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.	0.6	81
2	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	0.6	78
3	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	0.6	58
4	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.	0.7	47
5	Cascaded high-gradient terahertz-driven acceleration of relativistic electron beams. Nature Photonics, 2021, 15, 426-430.	15.6	44
6	Tunable High-Intensity Electron Bunch Train Production Based on Nonlinear Longitudinal Space Charge Oscillation. Physical Review Letters, 2016, 116, 184801.	2.9	38
7	Linearly polarized X-ray fluorescence computed tomography based on a Thomson scattering light source: a Monte Carlo study. Journal of Synchrotron Radiation, 2020, 27, 737-745.	1.0	31
8	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.	0.7	28
9	Recent progress of phase-contrast imaging at Tsinghua Thomson-scattering X-ray source. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 364-369.	0.6	21
10	Efficient generation of a high-field terahertz pulse train in bulk lithium niobate crystals by optical rectification. Optics Express, 2021, 29, 9624.	1.7	19
11	Generation of high-power, tunable terahertz radiation from laser interaction with a relativistic electron beam. Physical Review Accelerators and Beams, 2017, 20, .	0.6	19
12	Warm dense matter research at HIAF. Matter and Radiation at Extremes, 2018, 3, 85-93.	1.5	17
13	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	0.6	14
14	Observation of coherent Smith-Purcell and transition radiation driven by single bunch and micro-bunched electron beams. Applied Physics Letters, 2018, 112, .	1.5	14
15	Overestimation of thermal emittance in solenoid scans due to coupled transverse motion. Physical Review Accelerators and Beams, 2018, 21, .	0.6	14
16	UV pulse trains by $\hat{\pm}$ -BBO crystal stacking for the production of THz-rap-rate electron bunches. Journal of Plasma Physics, 2012, 78, 429-431.	0.7	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, .	1.5	12
18	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Development of a C -band 6A MeV standing-wave linear accelerator. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	10
20	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.	1.5	10
21	Experimental demonstration of the correction of coupled-transverse-dynamics aberration in an rf photoinjector. Physical Review Accelerators and Beams, 2019, 22, .	0.6	10
22	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
23	Precise control and measurement of Laser 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.	0.7	8
24	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.	0.7	8
25	Energy-angle correlation correction algorithm for monochromatic computed tomography based on Thomson scattering X-ray source. Journal of Applied Physics, 2017, 122, 234903.	1.1	8
26	Experimental feasibility of dual-energy computed tomography based on the Thomson scattering X-ray source. Journal of Synchrotron Radiation, 2018, 25, 1797-1802.	1.0	8
27	Analytic RF design of a linear accelerator with a SLED-I type RF pulse compressor. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	1.3	8
28	High-throughput injection acceleration of electron bunches from a linear accelerator to a laser wakefield accelerator. Nature Physics, 2021, 17, 801-806.	6.5	8
29	Experiments on bright-field and dark-field high-energy electron imaging with thick target material. Physical Review Accelerators and Beams, 2018, 21, .	0.6	8
30	Photoemission and degradation of semiconductor photocathode. Physical Review Accelerators and Beams, 2019, 22, .	0.6	8
31	Single-shot spatial-temporal electric field measurement of intense terahertz pulses from coherent transition radiation. Physical Review Accelerators and Beams, 2020, 23, .	0.6	8
32	Commissioning the photoinjector of a gamma-ray light source. Physical Review Accelerators and Beams, 2019, 22, .	0.6	8
33	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.	0.7	7
34	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	0.6	7
35	Generating 10-40 MeV high quality monoenergetic electron beams using a 5 TW 60 fs laser at Tsinghua University. Chinese Physics C, 2015, 39, 017001.	1.5	7
36	Temporal profile monitor based on electro-optic spatial decoding for low-energy bunches. Physical Review Accelerators and Beams, 2017, 20, .	0.6	7

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37	Observation of temporal evolution following laser triggered rf breakdown in vacuum. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
38	Phase control with two-beam interferometry method in a terahertz dielectric wakefield accelerator. Applied Physics Letters, 2017, 111, .	1.5	6
39	Laser- μ RF synchronization based on digital phase detector. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	6
40	Non-perturbing THz generation at the Tsinghua University Accelerator Laboratory 31 MeV electron beamline. Review of Scientific Instruments, 2018, 89, 093301.	0.6	6
41	Monitoring of electron bunch length by using Terahertz coherent transition radiation. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 157-161.	0.6	5
42	High-precision phase detection in femtosecond timing and synchronization system for TXGLS. Measurement Science and Technology, 2018, 29, 065011.	1.4	5
43	Beam and image experiment of beam deflection electron gun for distributed X-ray sources. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	1.3	5
44	Visualizing the melting processes in ultrashort intense laser triggered gold mesh with high energy electron radiography. Matter and Radiation at Extremes, 2019, 4, .	1.5	5
45	Generation of Tunable 10-mJ-Level Terahertz Pulses through Nonlinear Plasma Wakefield Modulation. Physical Review Applied, 2021, 15, .	1.5	5
46	Rapid thermal emittance and quantum efficiency mapping of a cesium telluride cathode in an rf photoinjector using multiple laser beamlets. Physical Review Accelerators and Beams, 2020, 23, .	0.6	5
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.	2.0	4
48	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.	0.7	4
49	First principle measurements of thermal emittance for copper and magnesium. , 2007, , .		3
50	Simulation study of a photo-injector for brightness improvement in Thomson scattering X-ray source via ballistic bunching. Chinese Physics C, 2014, 38, 027003.	1.5	3
51	Optimization of the Compact Gamma-ray Source Based on Inverse Compton Scattering Design. , 2018, , .		3
52	Focal spot characteristics of Thomson scattering x-ray sources. Journal of Applied Physics, 2018, 124, 124901.	1.1	3
53	A low level radio frequency system drift compensation technique by time-multiplexing pick-up/reference signals. Review of Scientific Instruments, 2019, 90, 114711.	0.6	3
54	Development of an L-band photocathode RF gun at Tsinghua University. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164675.	0.7	3

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55	Using Self-Triggered Sustaining Pre-Ionization to Obtain Nanosecond Jitter in a MV Pulsed Gas Switch. IEEE Transactions on Plasma Science, 2021, 49, 4034-4037.	0.6	3
56	Evaluation and simulations of a Thomson scattering X-ray source based on ray tracing methods. Laser and Particle Beams, 2004, 22, 355-365.	0.4	2
57	Thomson scattering x-ray source: a novel tool for monochromatic computed tomography. , 2017, , .		2
58	Application of a drift compensation low-level radio frequency system based on time-multiplexing pick-up/reference signals. Review of Scientific Instruments, 2020, 91, 124706.	0.6	2
59	Analysis of slice transverse emittance evolution in a very-high-frequency gun photoinjector. Physical Review Accelerators and Beams, 2021, 24, .	0.6	2
60	Slice emittance measurement for photocathode RF gun with solenoid scanning and RF deflecting cavity. Science China: Physics, Mechanics and Astronomy, 2011, 54, 283-286.	2.0	1
61	Effects of laser pulse heating of copper photocathodes on high-brightness electron beam production at blowout regime. Chinese Physics C, 2017, 41, 067002.	1.5	1
62	Measurement of pre-bunched beam's longitudinal form factor based on radiation from a tunable-gap undulator. Review of Scientific Instruments, 2018, 89, 013304.	0.6	1
63	An active coaxial line phase reference distribution system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 977, 164288.	0.7	1
64	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.	0.7	1
65	Ultrafast High-Energy Electron Radiography Application in Magnetic Field Delicate Structure Measurement. Laser and Particle Beams, 2021, 2021, .	0.4	1
66	Tunable Plasma Linearizer for Compensation of Nonlinear Energy Chirp. Physical Review Applied, 2021, 16, .	1.5	1
67	Eliminating uncertainty of thermal emittance measurement in solenoid scans due to rf and solenoid fields overlap. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1025, 166149.	0.7	1
68	K-edge imaging based on a Thomson scattering x-ray source. , 2022, , .		1
69	Optical Diagnosis of Preionization Mechanisms and Breakdown Characteristics in a Nanosecond Switch. IEEE Transactions on Plasma Science, 2022, 50, 1912-1926.	0.6	1
70	Measurements of laser temporal profile and polarization-dependent quantum efficiency. , 2007, , .		0
71	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0
72	Design and development of laser-RF Synchronization system for Thomson-scattering X-ray source at Tsinghua University. , 2009, , .		0

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73	Experimental results on the tunable superradiate THz radiation from the undulator in Tsinghua University beamline. , 2017, , .		0
74	A pulse-to-pulse timing jitter measurement between two synchronized amplified laser beams for TTX. Review of Scientific Instruments, 2017, 88, 063307.	0.6	0
75	Proposal of a femtosecond megahertz repetition-rate electron diffraction instrument based on the Chinese Academy of Engineering Physics terahertz free electron laser beamline. Review of Scientific Instruments, 2018, 89, 105101.	0.6	0
76	Twin-bunch compression via velocity bunching in a traveling wave accelerator. Physical Review Accelerators and Beams, 2018, 21, .	0.6	0