Ying-Chao Du

List of Publications by Year
in descending order

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76	806	623574	580701
papers	citations	14 h-index	25 g-index

77	77	77	715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	K-edge imaging based on a Thomson scattering x-ray source. , 2022, , .		1
3	Optical Diagnosis of Preionization Mechanisms and Breakdown Characteristics in a Nanosecond Switch. IEEE Transactions on Plasma Science, 2022, 50, 1912-1926.	0.6	1
4	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
5	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
6	Ultrafast High-Energy Electron Radiography Application in Magnetic Field Delicate Structure Measurement. Laser and Particle Beams, 2021, 2021, .	0.4	1
7	Cascaded high-gradient terahertz-driven acceleration of relativistic electron beams. Nature Photonics, 2021, 15, 426-430.	15.6	44
8	High-throughput injectionâ€“acceleration of electron bunches from a linear accelerator to a laser wakefield accelerator. Nature Physics, 2021, 17, 801-806.	6.5	8
9	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
10	Generation of Tunable 10-mJ-Level Terahertz Pulses through Nonlinear Plasma Wakefield Modulation. Physical Review Applied, 2021, 15, .	1.5	5
11	Tunable Plasma Linearizer for Compensation of Nonlinear Energy Chirp. Physical Review Applied, 2021, 16, .	1.5	1
12	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
13	Analysis of slice transverse emittance evolution in a very-high-frequency gun photoinjector. Physical Review Accelerators and Beams, 2021, 24, .	0.6	2
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	Experimental demonstration of the correction of coupled-transverse-dynamics aberration in an rf photoinjector. Physical Review Accelerators and Beams, 2019, 22, .	0.6	10
25	Photoemission and degradation of semiconductor photocathode. Physical Review Accelerators and Beams, 2019, 22, .	0.6	8
26	Commissioning the photoinjector of a gamma-ray light source. Physical Review Accelerators and Beams, 2019, 22, .	0.6	8
27	Measurement of pre-bunched beamâ€™s longitudinal form factor based on radiation from a tunable-gap undulator. Review of Scientific Instruments, 2018, 89, 013304.	0.6	1
28	Warm dense matter research at HIAF. Matter and Radiation at Extremes, 2018, 3, 85-93.	1.5	17
29	Development of sub-100 femtosecond timing and synchronization system. Review of Scientific Instruments, 2018, 89, 014701.	0.6	14
30	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
31	High-precision phase detection in femtosecond timing and synchronization system for TXGLS. Measurement Science and Technology, 2018, 29, 065011.	1.4	5
32	Optimization of the Compact Gamma-ray Source Based on Inverse Compton Scattering Design. , 2018, , .		3
33	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
34	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
35	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
36	Focal spot characteristics of Thomson scattering x-ray sources. Journal of Applied Physics, 2018, 124, 124901.	1.1	3

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37	Non-perturbing THz generation at the Tsinghua University Accelerator Laboratory 31 MeV electron beamline. Review of Scientific Instruments, 2018, 89, 093301.	0.6	6
38	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
39	Overestimation of thermal emittance in solenoid scans due to coupled transverse motion. Physical Review Accelerators and Beams, 2018, 21, .	0.6	14
40	Twin-bunch compression via velocity bunching in a traveling wave accelerator. Physical Review Accelerators and Beams, 2018, 21, .	0.6	0
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	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	0.6	11
43	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
44	Experimental results on the tunable superradiate THz radiation from the undulator in Tsinghua University beamline. , 2017, , .		0
45	Phase control with two-beam interferometry method in a terahertz dielectric wakefield accelerator. Applied Physics Letters, 2017, 111, .	1.5	6
46	Laserâ€“RF synchronization based on digital phase detector. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	1.3	6
47	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
48	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
49	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
50	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
51	Temporal profile monitor based on electro-optic spatial decoding for low-energy bunches. Physical Review Accelerators and Beams, 2017, 20, .	0.6	7
52	Thomson scattering x-ray source: a novel tool for monochromatic computed tomography. , 2017, , .		2
53	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
54	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

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55	Tunable High-Intensity Electron Bunch Train Production Based on Nonlinear Longitudinal Space Charge Oscillation. Physical Review Letters, 2016, 116, 184801.	2.9	38
56	Generating 10â€“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
57	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
58	Observation of temporal evolution following laser triggered rf breakdown in vacuum. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	6
59	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
60	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	0.6	7
61	Development of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi></mml:math>-band 6ÂMeV standing-wave linear accelerator. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	10
62	Generation of first hard X-ray pulse at Tsinghua Thomson Scattering X-ray Source. Review of Scientific Instruments, 2013, 84, 053301.	0.6	81
63	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.	0.7	12
64	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
65	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
66	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
67	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.	0.7	8
68	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
69	Note: Single-shot continuously time-resolved MeV ultrafast electron diffraction. Review of Scientific Instruments, 2010, 81, 036110.	0.6	58
70	Experimental demonstration of high quality MeV ultrafast electron diffraction. Review of Scientific Instruments, 2009, 80, 083303.	0.6	78
71	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
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	Measurements of laser temporal profile and polarization-dependent quantum efficiency. , 2007, , .		0
74	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0
75	First principle measurements of thermal emittance for copper and magnesium. , 2007, , .		3
76	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