Jianfei Hua

List of Publications by Year
in descending order

22 papers	345 citations	933447 10 h-index	794594 19 g-index
22 all docs	22 docs citations	22 times ranked	454 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	Relativistic single-cycle tunable infrared pulses generated from a tailored plasma density structure. Nature Photonics, 2018, 12, 489-494.	31.4	59
3	Phase Space Dynamics of a Plasma Wakefield Dechirper for Energy Spread Reduction. Physical Review Letters, 2019, 122, 204804.	7.8	31
4	Photon deceleration in plasma wakes generates single-cycle relativistic tunable infrared pulses. Nature Communications, 2020, 11, 2787.	12.8	23
5	High Efficiency Uniform Wakefield Acceleration of a Positron Beam Using Stable Asymmetric Mode in a Hollow Channel Plasma. Physical Review Letters, 2021, 127, 174801.	7.8	22
6	Region-of-interest micro-focus computed tomography based on an all-optical inverse Compton scattering source. Matter and Radiation at Extremes, 2020, 5, .	3.9	18
7	Measurements of the Growth and Saturation of Electron Weibel Instability in Optical-Field Ionized Plasmas. Physical Review Letters, 2020, 125, 255001.	7.8	18
8	High-resolution phase-contrast imaging of biological specimens using a stable betatron X-ray source in the multiple-exposure mode. Scientific Reports, 2019, 9, 7796.	3.3	16
9	Accurate description of ultra-short tightly focused Gaussian laser pulses and vacuum laser acceleration. Applied Physics B: Lasers and Optics, 2005, 81, 813-819.	2.2	14
10	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. Review of Scientific Instruments, 2017, 88, 045110.	1.3	11
11	Near-Ideal Dechirper for Plasma-Based Electron and Positron Acceleration Using a Hollow Channel Plasma. Physical Review Applied, 2019, 12, .	3.8	10
12	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
13	Ultra-short pulse generation from mid-IR to THz range using plasma wakes and relativistic ionization fronts. Physics of Plasmas, 2021, 28, .	1.9	8
14	High-throughput injectionâ€“acceleration of electron bunches from a linear accelerator to a laser wakefield accelerator. Nature Physics, 2021, 17, 801-806.	16.7	8
15	In-line phase-contrast imaging based on Tsinghua Thomson scattering x-ray source. Review of Scientific Instruments, 2014, 85, 083307.	1.3	7
16	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
17	Electron Weibel instability induced magnetic fields in optical-field ionized plasmas. Physics of Plasmas, 2022, 29, .	1.9	3
18	Generation of Coherent Monochromatic Betatron Radiation by Laser-triggered Ionization Injection in Plasma Accelerators. , 2018, , .		1

#	Article	IF	Citations
19	Measuring fluence distribution of intense short laser based on radiochromic effect. Optics Letters, 2021, 46, 2795-2798.	3.3	1
20	Tunable Plasma Linearizer for Compensation of Nonlinear Energy Chirp. Physical Review Applied, 2021, 16, .	3.8	1
21	Design of a source to supply ultra-fast electron and X-ray pulses. , 2007, , .		0
22	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