

Xiaomei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,019
citations

471509

17
h-index

434195

31
g-index

41
all docs

41
docs citations

41
times ranked

630
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient GeV ion generation by ultraintense circularly polarized laser pulse. Physics of Plasmas, 2007, 14, .	1.9	118
2	Generation of Intense High-Order Vortex Harmonics. Physical Review Letters, 2015, 114, 173901.	7.8	117
3	Multistaged acceleration of ions by circularly polarized laser pulse: Monoenergetic ion beam generation. Physics of Plasmas, 2007, 14, .	1.9	95
4	Light Fan Driven by a Relativistic Laser Pulse. Physical Review Letters, 2014, 112, 235001.	7.8	95
5	Terawatt-scale optical half-cycle attosecond pulses. Scientific Reports, 2018, 8, 2669.	3.3	70
6	Hollow screw-like drill in plasma using an intense Laguerreâ€“Gaussian laser. Scientific Reports, 2015, 5, 8274.	3.3	51
7	Operating plasma density issues on large-scale laser-plasma accelerators toward high-energy frontier. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	46
8	Effect of pulse profile and chirp on a laser wakefield generation. Physics of Plasmas, 2012, 19, .	1.9	42
9	Particle-in-cell simulation of x-ray wakefield acceleration and betatron radiation in nanotubes. Physical Review Accelerators and Beams, 2016, 19, .	1.6	38
10	High-quality monoenergetic proton generation by sequential radiation pressure and bubble acceleration. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	32
11	Ultrahigh energy proton generation in sequential radiation pressure and bubble regime. Physics of Plasmas, 2010, 17, .	1.9	25
12	Deflection of a Reflected Intense Vortex Laser Beam. Physical Review Letters, 2016, 117, 113904.	7.8	23
13	Scheme for proton-driven plasma-wakefield acceleration of positively charged particles in a hollow plasma channel. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	22
14	Ion acceleration with mixed solid targets interacting with circularly polarized lasers. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	21
15	Ultra-intense single attosecond pulse generated from circularly polarized laser interacting with overdense plasma. Physics of Plasmas, 2011, 18, 083104.	1.9	19
16	High-energy monoenergetic proton bunch from laser interaction with a complex target. Physics of Plasmas, 2009, 16, .	1.9	18
17	Instabilities in interaction of circularly polarized laser pulse and overdense target. Physics of Plasmas, 2011, 18, .	1.9	17
18	Spin-polarized proton beam generation from gas-jet targets by intense laser pulses. Physical Review E, 2020, 102, 011201.	2.1	17

#	ARTICLE	IF	CITATIONS
19	Generation of a large amount of energetic electrons in complex-structure bubble. <i>New Journal of Physics</i> , 2010, 12, 023037.	2.9	16
20	Generation of high charged energetic electrons by using multiparallel laser pulses. <i>Physics of Plasmas</i> , 2010, 17, 103113.	1.9	16
21	Effect of plasma temperature on electrostatic shock generation and ion acceleration by laser. <i>Physics of Plasmas</i> , 2007, 14, 113108.	1.9	15
22	Steady state ion acceleration by a circularly polarized laser pulse. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 369, 339-344.	2.1	15
23	Generation of plasma intrinsic oscillation at the front surface of a target irradiated by a circularly polarized laser pulse. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	14
24	Laser plasma accelerator driven by a super-Gaussian pulse. <i>Journal of Plasma Physics</i> , 2012, 78, 447-453.	2.1	14
25	Electron beam dynamics and self-cooling up to PeV level due to betatron radiation in plasma-based accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012, 15, .	1.8	10
26	High-repetition-rate few-attosecond high-quality electron beams generated from crystals driven by intense X-ray laser. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	9
27	Electron acceleration by a propagating laser pulse in vacuum. <i>Physics of Plasmas</i> , 2007, 14, 083102.	1.9	8
28	Effects of pulse duration and areal density on ultrathin foil acceleration. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	8
29	Ultra-bright, well-collimated, GeV gamma-ray production in the QED regime. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	6
30	Overloading effect of energetic electrons in the bubble regime of laser wakefield acceleration. <i>Physics of Plasmas</i> , 2010, 17, 103108.	1.9	5
31	New phase-matching selection rule to generate angularly isolated harmonics. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	5
32	Enhanced high harmonic generation and the phase effect in double-sided relativistic laser-foil interaction. <i>Physics of Plasmas</i> , 2013, 20, 033109.	1.9	4
33	Laser-driven ultrafast antiproton beam. <i>Physics of Plasmas</i> , 2018, 25, 023111.	1.9	2
34	Effects of radiation reaction on laser proton acceleration in the bubble regime. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	2
35	Ultra-bright, ultra-broadband hard x-ray driven by laser-produced energetic electron beams. <i>Physics of Plasmas</i> , 2013, 20, 093102.	1.9	1
36	Proton acceleration by plasma wakefield driven by an intense proton beam. <i>Laser and Particle Beams</i> , 2013, 31, 427-438.	1.0	1

#	ARTICLE	IF	CITATIONS
37	Generation of collimated electron jets from plasma under applied electromagnetostatic field. Laser and Particle Beams, 2018, 36, 384-390.	1.0	1
38	Autocorrelation pulse-duration measurement of relativistic femtosecond laser. Physics of Plasmas, 2018, 25, 073101.	1.9	1
39	The Diagnostics of Density Distribution for Dense Hot DT Plasmas Using Fast Protons. The Review of Laser Engineering, 2008, 36, 1150-1152.	0.0	0
40	Layered structure in the interaction of thin foil with two laser pulses. Physics of Plasmas, 2014, 21, 024502.	1.9	0