

# Xiaomei Zhang

## List of Publications by Year in descending order

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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	New phase-matching selection rule to generate angularly isolated harmonics. High Power Laser Science and Engineering, 2021, 9, .	4.6	5
2	Spin-polarized proton beam generation from gas-jet targets by intense laser pulses. Physical Review E, 2020, 102, 011201.	2.1	17
3	High-repetition-rate few-attosecond high-quality electron beams generated from crystals driven by intense X-ray laser. Matter and Radiation at Extremes, 2020, 5, .	3.9	9
4	Terawatt-scale optical half-cycle attosecond pulses. Scientific Reports, 2018, 8, 2669.	3.3	70
5	Laser-driven ultrafast antiproton beam. Physics of Plasmas, 2018, 25, 023111.	1.9	2
6	Ultra-bright, well-collimated, GeV gamma-ray production in the QED regime. Physics of Plasmas, 2018, 25, .	1.9	6
7	Effects of radiation reaction on laser proton acceleration in the bubble regime. Physics of Plasmas, 2018, 25, .	1.9	2
8	Generation of collimated electron jets from plasma under applied electromagnetostatic field. Laser and Particle Beams, 2018, 36, 384-390.	1.0	1
9	Autocorrelation pulse-duration measurement of relativistic femtosecond laser. Physics of Plasmas, 2018, 25, 073101.	1.9	1
10	Deflection of a Reflected Intense Vortex Laser Beam. Physical Review Letters, 2016, 117, 113904.	7.8	23
11	Particle-in-cell simulation of x-ray wakefield acceleration and betatron radiation in nanotubes. Physical Review Accelerators and Beams, 2016, 19, .	1.6	38
12	Generation of Intense High-Order Vortex Harmonics. Physical Review Letters, 2015, 114, 173901.	7.8	117
13	Hollow screw-like drill in plasma using an intense Laguerreâ€“Gaussian laser. Scientific Reports, 2015, 5, 8274.	3.3	51
14	Layered structure in the interaction of thin foil with two laser pulses. Physics of Plasmas, 2014, 21, 024502.	1.9	0
15	Light Fan Driven by a Relativistic Laser Pulse. Physical Review Letters, 2014, 112, 235001.	7.8	95
16	Ultra-bright, ultra-broadband hard x-ray driven by laser-produced energetic electron beams. Physics of Plasmas, 2013, 20, 093102.	1.9	1
17	Enhanced high harmonic generation and the phase effect in double-sided relativistic laser-foil interaction. Physics of Plasmas, 2013, 20, 033109.	1.9	4
18	Proton acceleration by plasma wakefield driven by an intense proton beam. Laser and Particle Beams, 2013, 31, 427-438.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Scheme for proton-driven plasma-wakefield acceleration of positively charged particles in a hollow plasma channel. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	22
20	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
21	Laser plasma accelerator driven by a super-Gaussian pulse. <i>Journal of Plasma Physics</i> , 2012, 78, 447-453.	2.1	14
22	Effect of pulse profile and chirp on a laser wakefield generation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	42
23	Ultra-intense single attosecond pulse generated from circularly polarized laser interacting with overdense plasma. <i>Physics of Plasmas</i> , 2011, 18, 083104.	1.9	19
24	Instabilities in interaction of circularly polarized laser pulse and overdense target. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	17
25	Operating plasma density issues on large-scale laser-plasma accelerators toward high-energy frontier. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	46
26	Generation of a large amount of energetic electrons in complex-structure bubble. <i>New Journal of Physics</i> , 2010, 12, 023037.	2.9	16
27	Generation of high charged energetic electrons by using multiparallel laser pulses. <i>Physics of Plasmas</i> , 2010, 17, 103113.	1.9	16
28	Overloading effect of energetic electrons in the bubble regime of laser wakefield acceleration. <i>Physics of Plasmas</i> , 2010, 17, 103108.	1.9	5
29	Effects of pulse duration and areal density on ultrathin foil acceleration. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	8
30	Ultrahigh energy proton generation in sequential radiation pressure and bubble regime. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	25
31	Ion acceleration with mixed solid targets interacting with circularly polarized lasers. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	21
32	High-energy monoenergetic proton bunch from laser interaction with a complex target. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	18
33	High-quality monoenergetic proton generation by sequential radiation pressure and bubble acceleration. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	32
34	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
35	The Diagnostics of Density Distribution for Dense Hot DT Plasmas Using Fast Protons. <i>The Review of Laser Engineering</i> , 2008, 36, 1150-1152.	0.0	0
36	Effect of plasma temperature on electrostatic shock generation and ion acceleration by laser. <i>Physics of Plasmas</i> , 2007, 14, 113108.	1.9	15

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37	Efficient GeV ion generation by ultraintense circularly polarized laser pulse. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	118
38	Multistaged acceleration of ions by circularly polarized laser pulse: Monoenergetic ion beam generation. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	95
39	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
40	Electron acceleration by a propagating laser pulse in vacuum. <i>Physics of Plasmas</i> , 2007, 14, 083102.	1.9	8