Ming Zeng

List of Publications by Year
in descending order

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27	672	759233 12	552781 26
papers	citations	h-index	g-index

30	30	30	827
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The extreme light infrastructureâ€”nuclear physics (ELI-NP) facility: new horizons in physics with 10 PW ultra-intense lasers and 20 MeV brilliant gamma beams. Reports on Progress in Physics, 2018, 81, 094301.	20.1	164
2	Demonstration of self-truncated ionization injection for GeV electron beams. Scientific Reports, 2015, 5, 14659.	3.3	98
3	Multichromatic Narrow-Energy-Spread Electron Bunches from Laser-Wakefield Acceleration with Dual-Color Lasers. Physical Review Letters, 2015, 114, 084801.	7.8	69
4	Self-truncated ionization injection and consequent monoenergetic electron bunches in laser wakefield acceleration. Physics of Plasmas, 2014, 21, .	1.9	54
5	Tunable monoenergetic electron beams from independently controllable laser-wakefield acceleration and injection. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	44
6	Acceleration and evolution of a hollow electron beam in wakefields driven by a Laguerre-Gaussian laser pulse. Physics of Plasmas, 2016, 23, .	1.9	42
7	A compact tunable polarized X-ray source based on laser-plasma helical undulators. Scientific Reports, 2016, 6, 29101.	3.3	33
8	FLASHForward: plasma wakefield accelerator science for high-average-power applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180392.	3.4	25
9	Acceleration of on-axis and ring-shaped electron beams in wakefields driven by Laguerre-Gaussian pulses. Journal of Applied Physics, 2016, 119, .	2.5	23
10	Enhanced single-stage laser-driven electron acceleration by self-controlled ionization injection. Optics Express, 2014, 22, 29578.	3.4	17
11	Controlled ionization-induced injection by tailoring the gas-density profile in laser wakefield acceleration. Journal of Plasma Physics, 2012, 78, 363-371.	2.1	15
12	High quality electron beam acceleration by ionization injection in laser wakefields with mid-infrared dual-color lasers. Physics of Plasmas, 2016, 23, 063113.	1.9	12
13	Generation of high-quality electron beams by ionization injection in a single acceleration stage. High Power Laser Science and Engineering, 2016, 4, .	4.6	12
14	Sub-femtosecond electron bunches in laser wakefield acceleration via injection suppression with a magnetic field. Plasma Physics and Controlled Fusion, 2019, 61, 085015.	2.1	11
15	Upper limit power for self-guided propagation of intense lasers in plasma. Applied Physics Letters, 2012, 101, .	3.3	9
16	Robust relativistic electron mirrors in laser wakefields for enhanced Thomson backscattering. Applied Physics Letters, 2013, 103, .	3.3	9
17	High-resolution sampling of beam-driven plasma wakefields. Nature Communications, 2020, 11, 5984.	12.8	8
18	Plasma eyepieces for petawatt class lasers. Physics of Plasmas, 2020, 27, 023109.	1.9	5

#	Article	IF	Citations
19	Radiation reaction of betatron oscillation in plasma wakefield accelerators. New Journal of Physics, 2021, 23, 075008.	2.9	5
20	Ponderomotively assisted ionization injection in plasma wakefield accelerators. New Journal of Physics, 2020, 22, 123003.	2.9	5
21	Some observations on trapping in nonlinear multi-dimensional wakes. AIP Conference Proceedings, 2013, , .	0.4	4
22	Ultra-intense attosecond pulses emitted from laser wakefields in non-uniform plasmas. Laser and Particle Beams, 2013, 31, 233-238.	1.0	2
23	Scissor-cross ionization injection in laser wakefield accelerators. Plasma Physics and Controlled Fusion, 2022, 64, 045012.	2.1	2
24	Charge Accretion Rate and Injection Radius of Ionized-Induced Injections in Laser Wakefield Accelerators. Journal of Physics: Conference Series, 2016, 688, 012130.	0.4	1
25	High-flux electron beams from laser wakefield accelerators driven by petawatt lasers. Plasma Science and Technology, 2017, 19, 070502.	1.5	1
26	Studies on high-quality electron beams and tunable x-ray sources produced by laser wakefield accelerators. Proceedings of SPIE, 2016, , .	0.8	0
27	The optimal beam-loading in two-bunch nonlinear plasma wakefield accelerators. Plasma Physics and Controlled Fusion, 2022, 64, 065007.	2.1	0