

Xing-Long Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

461
citations

840776

11
h-index

940533

16
g-index

16
all docs

16
docs citations

16
times ranked

328
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of single-cycle relativistic infrared pulses at wavelengths above 20 μm from density-tailored plasmas. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	3.9	9
2	All-optical quasi-monoenergetic GeV positron bunch generation by twisted laser fields. <i>Communications Physics</i> , 2022, 5, .	5.3	16
3	Ion Acoustic Shock Wave Formation and Ion Acceleration in the Interactions of Pair Jets with Electron-positron Plasmas. <i>Astrophysical Journal</i> , 2022, 931, 36.	4.5	4
4	Relativistic-induced opacity of electron-positron plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 045010.	2.1	1
5	Generation of 100-MeV Attosecond Electron Bunches with Terawatt Few-Cycle Laser Pulses. <i>Physical Review Applied</i> , 2021, 15, .	3.8	11
6	Extremely brilliant GeV γ -rays from a two-stage laser-plasma accelerator. <i>Science Advances</i> , 2020, 6, eaaz7240.	10.3	53
7	Efficient generation of relativistic near-single-cycle mid-infrared pulses in plasmas. <i>Light: Science and Applications</i> , 2020, 9, 46.	16.6	18
8	Single-Cycle Terawatt Twisted-Light Pulses at Midinfrared Wavelengths above 10 μm . <i>Physical Review Applied</i> , 2019, 12, .	3.8	18
9	Collimated GeV attosecond electron-positron bunches from a plasma channel driven by 10 PW lasers. <i>Matter and Radiation at Extremes</i> , 2019, 4, .	3.9	20
10	Bright attosecond γ -ray pulses from nonlinear Compton scattering with laser-illuminated compound targets. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	44
11	Generation of GeV positron and γ -photon beams with controllable angular momentum by intense lasers. <i>New Journal of Physics</i> , 2018, 20, 083013.	2.9	36
12	Ultra-bright γ -ray emission and dense positron production from two laser-driven colliding foils. <i>Scientific Reports</i> , 2017, 7, 17312.	3.3	28
13	All-optical bright γ -ray and dense positron source by laser driven plasmas-filled cone. <i>Optics Express</i> , 2016, 24, 15978.	3.4	26
14	Dense GeV electron-positron pairs generated by lasers in near-critical-density plasmas. <i>Nature Communications</i> , 2016, 7, 13686.	12.8	131
15	Ultra-bright, high-energy-density γ -ray emission from a gas-filled gold cone-capillary. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	7
16	Enhanced electron trapping and γ -ray emission by ultra-intense laser irradiating a near-critical-density plasma filled gold cone. <i>New Journal of Physics</i> , 2015, 17, 053039.	2.9	39