

Weimin Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

339
citations

933447

10
h-index

839539

18
g-index

40
all docs

40
docs citations

40
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced absorption of intense short-pulse laser light by subwavelength nanolayered target. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	48
2	Control of the hot electrons produced by laser interaction with nanolayered target. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	41
3	Observation of a high degree of stopping for laser-accelerated intense proton beams in dense ionized matter. <i>Nature Communications</i> , 2020, 11, 5157.	12.8	29
4	Elimination of higher-order diffraction using zigzag transmission grating in soft x-ray region. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	23
5	Enhancement of monoenergetic proton beams via cone substrate in high intensity laser pulse-double layer target interactions. <i>Laser and Particle Beams</i> , 2010, 28, 585-590.	1.0	22
6	Enhancement in coupling efficiency from laser to forward hot electrons by conical nanolayered targets. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	20
7	Laser-driven proton acceleration using a conical nanobrush target. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	18
8	Towards high-energy, high-resolution computed tomography via a laser driven micro-spot gamma-ray source. <i>Scientific Reports</i> , 2018, 8, 15888.	3.3	17
9	High-energy X-ray radiography of laser shock loaded metal dynamic fragmentation using high-intensity short-pulse laser. <i>Review of Scientific Instruments</i> , 2018, 89, 115106.	1.3	16
10	Analysis of electromagnetic pulses generation from laser coupling with polymer targets: Effect of metal content in target. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	12
11	Micro-spot gamma-ray generation based on laser wakefield acceleration. <i>Journal of Applied Physics</i> , 2018, 123, 243301.	2.5	9
12	Improvement of proton energy in high-intensity laser-nanobrush target interactions. <i>Laser and Particle Beams</i> , 2012, 30, 307-311.	1.0	8
13	Measurements of X-ray doses and spectra produced by picosecond laser-irradiated solid targets. <i>Applied Radiation and Isotopes</i> , 2017, 123, 41-48.	1.5	8
14	Influence of the initial size of the proton layer in sheath field proton acceleration. <i>Laser and Particle Beams</i> , 2013, 31, 597-605.	1.0	7
15	New scheme for enhancement of maximum proton energy with a cone-hole target irradiated by a short intense laser pulse. <i>Physics of Plasmas</i> , 2017, 24, 033106.	1.9	7
16	An angular-resolved multi-channel Thomson parabola spectrometer for laser-driven ion measurement. <i>Review of Scientific Instruments</i> , 2018, 89, 093302.	1.3	7
17	Effect of inside diameter of tip on proton beam produced by intense laser pulse on double-layer cone targets. <i>Laser and Particle Beams</i> , 2013, 31, 123-127.	1.0	6
18	High-Order Interpolation Algorithms for Charge Conservation in Particle-in-Cell Simulations. <i>Communications in Computational Physics</i> , 2013, 13, 1134-1150.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Realization of high irradiation uniformity for direct drive ICF at the SG-III prototype laser facility. European Physical Journal D, 2015, 69, 1.	1.3	6
20	Ab initio simulations for expanded gold fluid in metal-nonmetal transition regime. Physics of Plasmas, 2019, 26, 122705.	1.9	4
21	Collimation of hot electron beams by external field from magnetic-flux compression. Laser and Particle Beams, 2013, 31, 579-582.	1.0	3
22	DOSIMETRIC EVALUATION OF LASER-DRIVEN X-RAY AND NEUTRON SOURCES UTILIZING XG-III PS LASER WITH PEAK POWER OF 300 TERAWATT. Radiation Protection Dosimetry, 2017, 177, 302-309.	0.8	3
23	Investigation of magnetic inhibition effect on ion acceleration at high laser intensities. Matter and Radiation at Extremes, 2021, 6, 044401.	3.9	3
24	Strong mid-infrared radiation from self-guided fast electron bunch propagating along a grated target surface in laser-solid interaction. Physics of Plasmas, 2012, 19, .	1.9	2
25	Production of collimated MeV electron beam in carbon nanotube array irradiated by super-intense femtosecond laser. Carbon, 2013, 65, 28-34.	10.3	2
26	Improvement of proton beam quality by an optimized dragging field generated by the ultraintense laser interactions with a complex double-layer target. Laser and Particle Beams, 2016, 34, 562-566.	1.0	2
27	Enhanced focusing of relativistic lasers by plasma lens with exponentially increasing density profiles. Physics of Plasmas, 2017, 24, .	1.9	2
28	In situ ions energy spectrum measurement using a diamond detector in laser-accelerated ionsâ€“plasma interaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1026, 166191.	1.6	2
29	Single-focus phase singularity generated by spiral zone plate with quasi-random distributed quantum dots. Journal Physics D: Applied Physics, 0, , .	2.8	2
30	Effects of plasma density on laser-generated energetic electron generation and transport in a plasma channel. Physics of Plasmas, 2018, 25, .	1.9	1
31	Investigation on the transport efficiency of fast electrons with double-layer KÎ± fluorescence measurement. Physics of Plasmas, 2019, 26, 073101.	1.9	1
32	Combined optical reflectivity measurement and ab initio simulation of expanded gold fluid across the metalâ€“nonmetal transition regime. AIP Advances, 2020, 10, 095008.	1.3	1
33	Plasma Spectroscopy on Hydrogen-Carbon-Oxygen Foam Targets Driven by Laser-Generated Hohlraum Radiation. Laser and Particle Beams, 2022, 2022, .	1.0	1
34	Optimization of direct drive irradiation uniformity of cylindrical target. Physics of Plasmas, 2017, 24, 072714.	1.9	0
35	Enhanced long-distance transport of periodic electron beams in an advanced double layer cone-channel target. AIP Advances, 2018, 8, 025321.	1.3	0
36	Simulation study of positron production by picosecond laser-driven electrons. European Physical Journal D, 2019, 73, 1.	1.3	0

#	ARTICLE	IF	CITATIONS
37	Onset of inverse magnetic energy transfer in collisionless turbulent plasmas. Physical Review E, 2021, 104, 025204.	2.1	0
38	Increase in Axial Compressibility in a Spinning Van der Waals Gas. Entropy, 2021, 23, 137.	2.2	0
39	A single shot gamma-induced positron spectroscopy based on laser wakefield accelerator. AIP Advances, 2021, 11, 115021.	1.3	0