

# Wei Lu

## List of Publications by Year in descending order

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30  
papers

1,103  
citations

623734

14  
h-index

477307

29  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1000  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy doubling of 42% GeV electrons in a metre-scale plasma wakefield accelerator. <i>Nature</i> , 2007, 445, 741-744.	27.8	604
2	Demonstration of a positron beam-driven hollow channel plasma wakefield accelerator. <i>Nature Communications</i> , 2016, 7, 11785.	12.8	93
3	Relativistic single-cycle tunable infrared pulses generated from a tailored plasma density structure. <i>Nature Photonics</i> , 2018, 12, 489-494.	31.4	59
4	Life-Cycle Implications of Using Crop Residues for Various Energy Demands in China. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4026-4032.	10.0	50
5	Numerical simulations of laser wakefield accelerators in optimal Lorentz frames. <i>Computer Physics Communications</i> , 2010, 181, 869-875.	7.5	31
6	Ion Motion Induced Emittance Growth of Matched Electron Beams in Plasma Wakefields. <i>Physical Review Letters</i> , 2017, 118, 244801.	7.8	30
7	Photon deceleration in plasma wakes generates single-cycle relativistic tunable infrared pulses. <i>Nature Communications</i> , 2020, 11, 2787.	12.8	23
8	High Efficiency Uniform Wakefield Acceleration of a Positron Beam Using Stable Asymmetric Mode in a Hollow Channel Plasma. <i>Physical Review Letters</i> , 2021, 127, 174801.	7.8	22
9	Plasma-Assisted Synthesis of Chlorinated Polyvinyl Chloride (CPVC) Using a Gas-Solid Contacting Process. <i>Plasma Processes and Polymers</i> , 2011, 8, 94-99.	3.0	18
10	Region-of-interest micro-focus computed tomography based on an all-optical inverse Compton scattering source. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	3.9	18
11	Measurements of the Growth and Saturation of Electron Weibel Instability in Optical-Field Ionized Plasmas. <i>Physical Review Letters</i> , 2020, 125, 255001.	7.8	18
12	Pseudoelastic behavior of a CuAlNi single crystal under uniaxial loading. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999, 30, 1933-1943.	2.2	16
13	High-resolution phase-contrast imaging of biological specimens using a stable betatron X-ray source in the multiple-exposure mode. <i>Scientific Reports</i> , 2019, 9, 7796.	3.3	16
14	Controlled ionization-induced injection by tailoring the gas-density profile in laser wakefield acceleration. <i>Journal of Plasma Physics</i> , 2012, 78, 363-371.	2.1	15
15	Periodic self-injection of electrons in a few-cycle laser driven oscillating plasma wake. <i>AIP Advances</i> , 2020, 10, 095310.	1.3	13
16	Diffraction based method to reconstruct the spectrum of the Thomson scattering x-ray source. <i>Review of Scientific Instruments</i> , 2017, 88, 045110.	1.3	11
17	China goes green: cleaner production of chemicals. <i>Green Processing and Synthesis</i> , 2012, 1, .	3.4	9
18	Investigation on the oxidation behavior and multi-step reaction mechanism of nuclear graphite SNG742. <i>Journal of Nuclear Science and Technology</i> , 2020, 57, 263-275.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Ultra-short pulse generation from mid-IR to THz range using plasma wakes and relativistic ionization fronts. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	8
20	High-throughput injection acceleration of electron bunches from a linear accelerator to a laser wakefield accelerator. <i>Nature Physics</i> , 2021, 17, 801-806.	16.7	8
21	Pseudoelastic behavior of CuAlNi single crystal under biaxial loading. <i>Metals and Materials International</i> , 1998, 4, 702-706.	0.2	6
22	Dissociation of ribulose-1,5-bisphosphate carboxylase/oxygenase (Rubisco) observed by capillary electrophoresis. <i>Analyst, The</i> , 2000, 125, 1087-1090.	3.5	6
23	Summary report of working group 1: Laser-plasma wakefield acceleration. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
24	Experimental study on the oxidation behavior and microstructural evolution of NG-CT-10 and NG-CT-20 nuclear graphite. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1.	3.4	4
25	Factors affecting bacterial growth in drinking water distribution system. <i>Biomedical and Environmental Sciences</i> , 2005, 18, 137-40.	0.2	4
26	DOSIMETRIC EVALUATION OF LASER-DRIVEN X-RAY AND NEUTRON SOURCES UTILIZING XG-III PS LASER WITH PEAK POWER OF 300 TERAWATT. <i>Radiation Protection Dosimetry</i> , 2017, 177, 302-309.	0.8	3
27	Electron Weibel instability induced magnetic fields in optical-field ionized plasmas. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	3
28	Generation of Coherent Monochromatic Betatron Radiation by Laser-triggered Ionization Injection in Plasma Accelerators. , 2018, , .		1
29	Tunable Plasma Linearizer for Compensation of Nonlinear Energy Chirp. <i>Physical Review Applied</i> , 2021, 16, .	3.8	1
30	Biological stability in drinking water: a regression analysis of influencing factors. <i>Journal of Environmental Sciences</i> , 2005, 17, 395-8.	6.1	1