

Robbie Wilson

List of Publications by Year in descending order

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18
papers

559
citations

1040056

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839539

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18
all docs

18
docs citations

18
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of spatial-intensity contrast in ultraintense laser-plasma interactions. <i>Scientific Reports</i> , 2022, 12, 1910.	3.3	3
2	High order modes of intense second harmonic light produced from a plasma aperture. <i>Matter and Radiation at Extremes</i> , 2022, 7, 054401.	3.9	3
3	Influence of target-rear-side short scale length density gradients on laser-driven proton acceleration. <i>Plasma Physics and Controlled Fusion</i> , 2021, 63, 114001.	2.1	3
4	Self-Referencing Spectral Interferometric Probing of the Onset Time of Relativistic Transparency in Intense Laser-Foil Interactions. <i>Physical Review Applied</i> , 2020, 14, .	3.8	4
5	High order mode structure of intense light fields generated via a laser-driven relativistic plasma aperture. <i>Scientific Reports</i> , 2020, 10, 105.	3.3	14
6	Energy absorption and coupling to electrons in the transition from surface- to volume-dominant intense laser-plasma interaction regimes. <i>New Journal of Physics</i> , 2020, 22, 053044.	2.9	5
7	Enhanced laser intensity and ion acceleration due to self-focusing in relativistically transparent ultrathin targets. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
8	Role of magnetic field evolution on filamentary structure formation in intense laser-foil interactions. <i>High Power Laser Science and Engineering</i> , 2019, 7, .	4.6	5
9	Near-100 MeV protons via a laser-driven transparency-enhanced hybrid acceleration scheme. <i>Nature Communications</i> , 2018, 9, 724.	12.8	307
10	Radiation Pressure-Driven Plasma Surface Dynamics in Ultra-Intense Laser Pulse Interactions with Ultra-Thin Foils. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 336.	2.5	7
11	Development of Focusing Plasma Mirrors for Ultraintense Laser-Driven Particle and Radiation Sources. <i>Quantum Beam Science</i> , 2018, 2, 1.	1.2	13
12	Laser-plasma-based Space Radiation Reproduction in the Laboratory. <i>Scientific Reports</i> , 2017, 7, 42354.	3.3	34
13	Ellipsoidal plasma mirror focusing of high power laser pulses to ultra-high intensities. <i>Physics of Plasmas</i> , 2016, 23, 033106.	1.9	27
14	Influence of laser polarization on collective electron dynamics in ultraintense laser-foil interactions. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	4.6	6
15	Intra-pulse transition between ion acceleration mechanisms in intense laser-foil interactions. <i>Physics of Plasmas</i> , 2016, 23, 063116.	1.9	9
16	Towards optical polarization control of laser-driven proton acceleration in foils undergoing relativistic transparency. <i>Nature Communications</i> , 2016, 7, 12891.	12.8	54
17	Optically controlled dense current structures driven by relativistic plasma aperture-induced diffraction. <i>Nature Physics</i> , 2016, 12, 505-512.	16.7	48
18	The role of the gas/plasma plume and self-focusing in a gas-filled capillary discharge waveguide for high-power laser-plasma applications. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	7