Rachel Dance

List of Publications by Year in descending order

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Version: 2024-02-01

24 papers 756 citations

759233 12 h-index 610901 24 g-index

24 all docs

24 docs citations

times ranked

24

1041 citing authors

#	Article	IF	CITATIONS
1	Influence of spatial-intensity contrast in ultraintense laser–plasma interactions. Scientific Reports, 2022, 12, 1910.	3.3	3
2	Influence of target-rear-side short scale length density gradients on laser-driven proton acceleration. Plasma Physics and Controlled Fusion, 2021, 63, 114001.	2.1	3
3	Energy absorption and coupling to electrons in the transition from surface- to volume-dominant intense laser–plasma interaction regimes. New Journal of Physics, 2020, 22, 053044.	2.9	5
4	Role of magnetic field evolution on filamentary structure formation in intense laser–foil interactions. High Power Laser Science and Engineering, 2019, 7, .	4.6	5
5	Near-100 MeV protons via a laser-driven transparency-enhanced hybrid acceleration scheme. Nature Communications, 2018, 9, 724.	12.8	307
6	Enhanced laser-energy coupling to dense plasmas driven by recirculating electron currents. New Journal of Physics, 2018, 20, 033021.	2.9	16
7	Time-resolved measurements of fast electron recirculation for relativistically intense femtosecond scale laser-plasma interactions. Scientific Reports, 2018, 8, 4525.	3.3	8
8	Dual Ion Species Plasma Expansion from Isotopically Layered Cryogenic Targets. Physical Review Letters, 2018, 120, 204801.	7.8	11
9	Radiation Pressure-Driven Plasma Surface Dynamics in Ultra-Intense Laser Pulse Interactions with Ultra-Thin Foils. Applied Sciences (Switzerland), 2018, 8, 336.	2.5	7
10	Development of Focusing Plasma Mirrors for Ultraintense Laser-Driven Particle and Radiation Sources. Quantum Beam Science, 2018, 2, 1.	1.2	13
11	Micron-scale mapping of megagauss magnetic fields using optical polarimetry to probe hot electron transport in petawatt-class laser-solid interactions. Scientific Reports, 2017, 7, 8347.	3.3	7
12	Ellipsoidal plasma mirror focusing of high power laser pulses to ultra-high intensities. Physics of Plasmas, 2016, 23, 033106.	1.9	27
13	Influence of laser polarization on collective electron dynamics in ultraintense laser–foil interactions. High Power Laser Science and Engineering, 2016, 4, .	4.6	6
14	Intra-pulse transition between ion acceleration mechanisms in intense laser-foil interactions. Physics of Plasmas, 2016, 23, 063116.	1.9	9
15	Plasma scale-length effects on electron energy spectra in high-irradiance laser plasmas. Physical Review E, 2016, 93, 043201.	2.1	21
16	Towards optical polarization control of laser-driven proton acceleration in foils undergoing relativistic transparency. Nature Communications, 2016, 7, 12891.	12.8	54
17	Optically controlled dense current structures driven by relativistic plasma aperture-inducedÂdiffraction. Nature Physics, 2016, 12, 505-512.	16.7	48
18	Measurement of the angle, temperature and flux of fast electrons emitted from intense laser–solid interactions. Journal of Plasma Physics, 2015, 81, .	2.1	23

#	Article	IF	CITATION
19	Laboratory measurements of resistivity in warm dense plasmas relevant to the microphysics of brown dwarfs. Nature Communications, 2015, 6, 8742.	12.8	17
20	High efficiency proton beam generation through target thickness control in femtosecond laser-plasma interactions. Applied Physics Letters, 2014, 104, .	3.3	55
21	Hot electron production in laser solid interactions with a controlled pre-pulse. Physics of Plasmas, 2014, 21, .	1.9	22
22	Detailed analysis of hollow ions spectra from dense matter pumped by X-ray emission of relativistic laser plasma. Physics of Plasmas, 2014, 21, 031213.	1.9	33
23	Single shot, temporally and spatially resolved measurements of fast electron dynamics using a chirped optical probe. Journal of Instrumentation, 2014, 9, P03003-P03003.	1.2	7
24	Exotic Dense-Matter States Pumped by a Relativistic Laser Plasma in the Radiation-Dominated Regime. Physical Review Letters, 2013, 110, 125001.	7.8	49