

Ciaran Lewis

List of Publications by Year in descending order

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papers

852
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623734

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all docs

29
docs citations

29
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute calibration of Fujifilm BAS-TR image plate response to laser driven protons up to 40 MeV. Review of Scientific Instruments, 2022, 93, .	1.3	3
2	Time-dependent effects in melting and phase change for laser-shocked iron. Physical Review Research, 2020, 2, .	3.6	9
3	Probing ultrafast proton induced dynamics in transparent dielectrics. Plasma Physics and Controlled Fusion, 2018, 60, 054004.	2.1	3
4	An ultra-high gain and efficient amplifier based on Raman amplification in plasma. Scientific Reports, 2017, 7, 2399.	3.3	44
5	Experimental investigation of picosecond dynamics following interactions between laser accelerated protons and water. Applied Physics Letters, 2017, 110, 104102.	3.3	12
6	Efficient post-acceleration of protons in helical coil targets driven by sub-ps laser pulses. Scientific Reports, 2017, 7, 10891.	3.3	14
7	Picosecond metrology of laser-driven proton bursts. Nature Communications, 2016, 7, 10642.	12.8	80
8	Experimental measurements of the collisional absorption of XUV radiation in warm dense aluminium. Physical Review E, 2016, 94, 023203.	2.1	16
9	Fast-electron refluxing effects on anisotropic hard-x-ray emission from intense laser-plasma interactions. Physical Review E, 2015, 91, 033107.	2.1	13
10	Fast electron propagation in Ti foils irradiated with sub-picosecond laser pulses at $\lambda > 1018 \text{ \AA}$. Physics of Plasmas, 2014, 21, 023113.	1.9	12
11	Characterisation of deuterium spectra from laser driven multi-species sources by employing differentially filtered image plate detectors in Thomson spectrometers. Review of Scientific Instruments, 2014, 85, 093303.	1.3	34
12	Comparing optical Thomson scattering with emission spectroscopy in He plasmas induced by laser breakdown at 1 atmosphere. , 2012, , .		3
13	Coherent synchrotron emission from electron nanobunches formed in relativistic laser-plasma interactions. Nature Physics, 2012, 8, 804-808.	16.7	132
14	Fast electron penetration in laser-irradiated solids. European Physical Journal D, 2012, 66, 1.	1.3	1
15	Comparison of the electron density measurements using Thomson scattering and emission spectroscopy for laser induced breakdown in one atmosphere of helium. Applied Physics Letters, 2011, 99, 261504.	3.3	18
16	Thomson Scattering as a Diagnostic of Second-Harmonic Nd:YAG-Laser-Ablated Mg Plasma Plume. IEEE Transactions on Plasma Science, 2011, 39, 2824-2825.	1.3	2
17	Optical Thomson scatter from a laser-ablated magnesium plume. Journal of Applied Physics, 2009, 106, 083304.	2.5	17
18	Demonstration of a 2-ps transient x-ray laser. Physical Review A, 2002, 65, .	2.5	76

#	ARTICLE	IF	CITATIONS
19	Application Prospects for Soft X-ray Lasers. AIP Conference Proceedings, 2002, , .	0.4	0
20	Saturated and Short Pulse Duration X-Ray Lasers. AIP Conference Proceedings, 2002, , .	0.4	5
21	Saturated x-ray lasers at 196 and 73 Å... pumped by a picosecond traveling-wave excitation. Physical Review A, 2001, 64, .	2.5	49
22	Application of a picosecond laser plasma continuum light source to a dual-laser plasma photoabsorption experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1159-1168.	1.5	9
23	Study of ground-state titanium ion velocity distributions in laser-produced plasma plumes. Applied Physics Letters, 1999, 74, 3465-3467.	3.3	5
24	The Langmuir probe as a diagnostic of the electron component within low temperature laser ablated plasma plumes. Review of Scientific Instruments, 1999, 70, 1801-1805.	1.3	49
25	Saturated operation of a transient collisional x-ray laser. Physical Review A, 1998, 57, 4778-4783.	2.5	90
26	Recent progress in coherent XUV generation at RAL. , 1998, , .		1
27	Demonstration of Saturation in a Ni-like Ag X-Ray Laser at 14 nm. Physical Review Letters, 1997, 78, 3856-3859.	7.8	99
28	Near-field spatial imaging of a Ni-like Ag 140-Å... x-ray laser. Physical Review A, 1997, 56, 3161-3165.	2.5	14
29	Polar distribution of ablated atomic material during the pulsed laser deposition of Cu in vacuum: Dependence on focused laser spot size and power density. Journal of Applied Physics, 1996, 79, 7216-7222.	2.5	42