Christopher Thornton

List of Publications by Year
in descending order

14 papers	279 citations	1040056 9 h-index	1058476 14 g-index
14 all docs	14 docs citations	14 times ranked	478 citing authors

#	Article	IF	Citations
1	Investigation of the ejected mass during high-intensity laser solid interaction for improved plasma mirror generation. Plasma Physics and Controlled Fusion, 2022, 64, 034004.	2.1	2
2	Characterisation of a laser plasma betatron source for high resolution x-ray imaging. Plasma Physics and Controlled Fusion, 2021, 63, 084010.	2.1	3
3	Kinematics of femtosecond laser-generated plasma expansion: Determination of sub-micron density gradient and collisionality evolution of over-critical laser plasmas. Physics of Plasmas, 2021, 28, .	1.9	4
4	Automation and control of laser wakefield accelerators using Bayesian optimization. Nature Communications, 2020, 11, 6355.	12.8	78
5	Meter-scale conditioned hydrodynamic optical-field-ionized plasma channels. Physical Review E, 2020, 102, 053201.	2.1	17
6	Application of compact laser-driven accelerator X-ray sources for industrial imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164369.	1.6	18
7	Development of control mechanisms for a laser wakefield accelerator-driven bremsstrahlung x-ray source for advanced radiographic imaging. Plasma Physics and Controlled Fusion, 2020, 62, 124002.	2.1	11
8	Electron trapping and reinjection in prepulse-shaped gas targets for laser-plasma accelerators. Physical Review Accelerators and Beams, 2020, 23, .	1.6	1
9	Low-density hydrodynamic optical-field-ionized plasma channels generated with an axicon lens. Physical Review Accelerators and Beams, 2019, 22, .	1.6	37
10	Laser wakefield acceleration with active feedback at 5ÂHz. Physical Review Accelerators and Beams, 2019, 22, .	1.6	28
11	Temporal feedback control of high-intensity laser pulses to optimize ultrafast heating of atomic clusters. Applied Physics Letters, 2018, 112, .	3.3	19
12	Excitation and Control of Plasma Wakefields by Multiple Laser Pulses. Physical Review Letters, 2017, 119, 044802.	7.8	39
13	A compact, low cost Marx bank for generating capillary discharge plasmas. Review of Scientific Instruments, 2016, 87, 093302.	1.3	5
14	Generation of laser pulse trains for tests of multi-pulse laser wakefield acceleration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 383-385.	1.6	17