

Christopher Arran

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

316
citations

1163117

8
h-index

1058476

14
g-index

15
all docs

15
docs citations

15
times ranked

474
citing authors

#	ARTICLE	IF	CITATIONS
1	Automation and control of laser wakefield accelerators using Bayesian optimization. Nature Communications, 2020, 11, 6355.	12.8	78
2	Hydrodynamic optical-field-ionized plasma channels. Physical Review E, 2018, 97, 053203.	2.1	49
3	Excitation and Control of Plasma Wakefields by Multiple Laser Pulses. Physical Review Letters, 2017, 119, 044802.	7.8	39
4	Low-density hydrodynamic optical-field-ionized plasma channels generated with an axicon lens. Physical Review Accelerators and Beams, 2019, 22, .	1.6	37
5	Screened Coulomb potential in a flowing magnetized plasma. Plasma Physics and Controlled Fusion, 2015, 57, 025004.	2.1	36
6	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
7	Meter-scale conditioned hydrodynamic optical-field-ionized plasma channels. Physical Review E, 2020, 102, 053201.	2.1	17
8	Optimal parameters for radiation reaction experiments. Plasma Physics and Controlled Fusion, 2019, 61, 074009.	2.1	14
9	Overcoming the dephasing limit in multiple-pulse laser wakefield acceleration. Physical Review Accelerators and Beams, 2020, 23, .	1.6	8
10	The inadequacy of a magnetohydrodynamic approach to the Biermann battery. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200017.	3.4	7
11	Introduction to Streaming Complex Plasmas B: Theoretical Description of Wake Effects. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 73-99.	0.2	6
12	Proton radiography in background magnetic fields. Matter and Radiation at Extremes, 2021, 6, .	3.9	5
13	Effect of laser temporal intensity skew on enhancing pair production in laser-electron-beam collisions. New Journal of Physics, 2021, 23, 095004.	2.9	2
14	Reconstructing nonlinear plasma wakefields using a generalized temporally encoded spectral shifting analysis. Physical Review Accelerators and Beams, 2018, 21, .	1.6	1
15	Potential to measure quantum effects in recent all-optical radiation reaction experiments. , 2019, , .		0