

Samuel Mark Wiggins

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

729
citations

933447

10
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

895
citing authors

#	ARTICLE	IF	CITATIONS
1	A compact synchrotron radiation source driven by a laser-plasma wakefield accelerator. <i>Nature Physics</i> , 2008, 4, 130-133.	16.7	313
2	Radiation sources based on laser-plasma interactions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 689-710.	3.4	101
3	Chirped pulse Raman amplification in plasma. <i>New Journal of Physics</i> , 2011, 13, 063042.	2.9	60
4	An ultra-high gain and efficient amplifier based on Raman amplification in plasma. <i>Scientific Reports</i> , 2017, 7, 2399.	3.3	44
5	A tuneable ultra-compact high-power, ultra-short pulsed, bright gamma-ray source based on bremsstrahlung radiation from laser-plasma accelerated electrons. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	43
6	Focused very high-energy electron beams as a novel radiotherapy modality for producing high-dose volumetric elements. <i>Scientific Reports</i> , 2019, 9, 10837.	3.3	40
7	Laser-plasma-based Space Radiation Reproduction in the Laboratory. <i>Scientific Reports</i> , 2017, 7, 42354.	3.3	34
8	Chirped pulse Raman amplification in warm plasma: towards controlling saturation. <i>Scientific Reports</i> , 2015, 5, 13333.	3.3	28
9	Three electron beams from a laser-plasma wakefield accelerator and the energy apportioning question. <i>Scientific Reports</i> , 2017, 7, 43910.	3.3	17
10	A method of determining narrow energy spread electron beams from a laser plasma wakefield accelerator using undulator radiation. <i>Physics of Plasmas</i> , 2009, 16, 093102.	1.9	16
11	Note: Femtosecond laser micromachining of straight and linearly tapered capillary discharge waveguides. <i>Review of Scientific Instruments</i> , 2011, 82, 096104.	1.3	9
12	High resolution electron beam measurements on the ALPHA-X laser-plasma wakefield accelerator. <i>Journal of Plasma Physics</i> , 2012, 78, 393-399.	2.1	7
13	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
14	Laser-plasma generated very high energy electrons (VHEEs) in radiotherapy. , 2017, , .		5
15	Straight and linearly tapered capillaries produced by femtosecond laser micromachining. <i>Journal of Plasma Physics</i> , 2012, 78, 355-361.	2.1	3
16	Towards a high efficiency amplifier based on Raman amplification. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 014018.	2.1	1
17	Progress Towards Laser Wakefield Acceleration and Applications at the Scottish Centre for the Application of Plasma-based Accelerators (SCAPA). <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012037.	0.4	1
18	Femtosecond-kiloampere electron bunches in laser-plasma accelerators. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
19	Characterisation of electron beams from laser-driven particle accelerators. , 2013, , .		0