M R Islam

List of Publications by Year in descending order

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23 papers	467 citations	840776 11 h-index	839539 18 g-index
23 all docs	23 docs citations	23 times ranked	551 citing authors

#	Article	IF	Citations
1	Low Emittance, High Brilliance Relativistic Electron Beams from a Laser-Plasma Accelerator. Physical Review Letters, 2010, 105, 215007.	7.8	117
2	High quality electron beams from a laser wakefield accelerator. Plasma Physics and Controlled Fusion, 2010, 52, 124032.	2.1	62
3	Towards Attosecond High-Energy Electron Bunches: Controlling Self-Injection in Laser-Wakefield Accelerators Through Plasma-Density Modulation. Physical Review Letters, 2017, 119, 044801.	7.8	47
4	A tuneable ultra-compact high-power, ultra-short pulsed, bright gamma-ray source based on bremsstrahlung radiation from laser-plasma accelerated electrons. Journal of Applied Physics, 2012, 111, .	2.5	43
5	Dosimetry of very high energy electrons (VHEE) for radiotherapy applications: using radiochromic film measurements and Monte Carlo simulations. Physics in Medicine and Biology, 2014, 59, 5811-5829.	3.0	39
6	Near-threshold electron injection in the laserâ€“plasma wakefield accelerator leading to femtosecond bunches. New Journal of Physics, 2015, 17, 093033.	2.9	37
7	Self-focusing of a high-intensity laser in a collisional plasma under weak relativistic-ponderomotive nonlinearity. Physics of Plasmas, 2013, 20, 123103.	1.9	18
8	The ion channel free-electron laser with varying betatron amplitude. New Journal of Physics, 2014, 16, 093025.	2.9	18
9	Three electron beams from a laser-plasma wakefield accelerator and the energy apportioning question. Scientific Reports, 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. Physics of Plasmas, 2009, 16, 093102.	1.9	16
11	Characterization of laser-driven single and double electron bunches with a permanent magnet quadrupole triplet and pepper-pot mask. New Journal of Physics, 2014, 16, 103006.	2.9	16
12	Pepper-pot emittance measurement of laser-plasma wakefield accelerated electrons. , 2009, , .		7
13	High resolution electron beam measurements on the ALPHA-X laserâ€“plasma wakefield accelerator. Journal of Plasma Physics, 2012, 78, 393-399.	2.1	7
14	The role of the gas/plasma plume and self-focusing in a gas-filled capillary discharge waveguide for high-power laser-plasma applications. Physics of Plasmas, 2013, 20, .	1.9	7
15	Narrow spread electron beams from a laser-plasma wakefield accelerator. Proceedings of SPIE, 2009, , .	0.8	4
16	Electron beam pointing stability of a laser wakefield accelerator. Proceedings of SPIE, 2009, , .	0.8	4
17	High resolution, single shot emittance measurement of relativistic electrons from laser-driven accelerator. Proceedings of SPIE, 2011, , .	0.8	2
18	Practical considerations for the ion channel free-electron laser. Proceedings of SPIE, 2015, , .	0.8	2

#	Article	IF	Citations
19	Wide-angle electron beams from laser-wakefield accelerators. , 2017, , .		2
20	Photon acceleration in the amplified plasma density wake of two copropagating laser pulses. Physics of Plasmas, 2010, 17, 073102.	1.9	1
21	Coherent radiation sources based on laser driven plasma waves. , 2015, , .		1
22	Femtosecond-kiloampere electron bunches in laser-plasma accelerators. , 2012, , .		0
23	Characterisation of electron beams from laser-driven particle accelerators. , 2013, , .		0