

Bahman Hafizi

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

403
citations

840776

11
h-index

752698

20
g-index

41
all docs

41
docs citations

41
times ranked

316
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagation of ultra-short, intense laser pulses in air. <i>Physics of Plasmas</i> , 2004, 11, 2865-2874.	1.9	67
2	Relativistic effects on intense laser beam propagation in plasma channels. <i>Physics of Plasmas</i> , 2003, 10, 1483-1492.	1.9	54
3	Laser-pumped coherent x-ray free-electron laser. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	42
4	Measurements of energetic electrons from the high-intensity laser ionization of gases. <i>Physics of Plasmas</i> , 2001, 8, 2481-2487.	1.9	37
5	Self-channeling of high-power laser pulses through strong atmospheric turbulence. <i>Physical Review A</i> , 2017, 96, .	2.5	30
6	Active remote detection of radioactivity based on electromagnetic signatures. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	28
7	Guiding and stability of short laser pulses in partially stripped ionizing plasmas. <i>Physics of Plasmas</i> , 1999, 6, 1683-1689.	1.9	22
8	High-power, high-intensity laser propagation and interactions. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	17
9	Nonlinear analysis of a magnicon output cavity. <i>Physics of Fluids B</i> , 1993, 5, 3045-3055.	1.7	12
10	Raman sidescatter in numerical models of short pulse laser plasma interactions. <i>Physics of Plasmas</i> , 2002, 9, 1157-1163.	1.9	11
11	Nonlinear frequency shift in Raman backscattering and its implications for plasma diagnostics. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	11
12	Special unitary particle pusher for extreme fields. <i>Computer Physics Communications</i> , 2021, 258, 107628.	7.5	11
13	Dynamic sheath formation and sub-THz radiation from laser-metal interactions. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	7
14	Radio-frequency linac-driven free-electron laser configurations. <i>Journal of Applied Physics</i> , 1989, 66, 1549-1555.	2.5	6
15	Optimization studies of magnicon efficiency. <i>Physics of Plasmas</i> , 1995, 2, 902-914.	1.9	6
16	Laser heating of uncoated optics in a convective medium. <i>Applied Optics</i> , 2012, 51, 2573.	1.8	6
17	Ideal form of optical plasma lenses. <i>Physics of Plasmas</i> , 2018, 25, 063101.	1.9	6
18	Superponderomotive regime of tunneling ionization. <i>Physical Review A</i> , 2017, 95, .	2.5	5

#	ARTICLE	IF	CITATIONS
19	Pushing particles in extreme fields. AIP Conference Proceedings, 2017, , .	0.4	5
20	Broadband terahertz radiation from metal targets irradiated by a short pulse laser. Physics of Plasmas, 2020, 27, .	1.9	5
21	Electron trajectories in the magnetic field of capillary discharge: Application to laser wakefield accelerators in plasma channel. Physics of Plasmas, 2003, 10, 2545-2551.	1.9	4
22	Ionization and pulse lethargy effects in inverse Cherenkov accelerators. Applied Physics Letters, 1997, 70, 2198-2200.	3.3	3
23	Key physics issues affecting the performance of free-electron lasers. , 1992, , .		2
24	Thermionic emission of electrons from metal surfaces in the warm dense matter regime. Physics of Plasmas, 2021, 28, 083503.	1.9	2
25	X-band magnicon amplifier research at the Naval Research Laboratory. AIP Conference Proceedings, 1995, , .	0.4	1
26	Staging and laser acceleration of ions in underdense plasma. AIP Conference Proceedings, 2017, , .	0.4	1
27	Compression of Terawatt Long-Wavelength Laser Pulses Through Backward Raman Amplification. , 2018, , .		1
28	Sideband instability in a free electron laser. , 1987, , .		0
29	Synchrotron-betatron Parametric Instability In Free-electron Lasers. , 0, , .		0
30	Proof-of-principle experiment of the vacuum beat wave accelerator. , 1997, , .		0
31	Ionization effects in inverse cherenkov accelerators. , 1997, , .		0
32	Wakefields generated by a tightly focused laser beam. , 0, , .		0
33	Electron distribution function due to ionizing laser pulse. , 0, , .		0
34	Kinetic effects in high gain free-electron lasers. AIP Conference Proceedings, 2002, , .	0.4	0
35	A nonlinear plasma retroreflector for single pulse Compton backscattering. AIP Conference Proceedings, 2016, , .	0.4	0
36	Prospects of coherent Compton backscattered X-rays from self-generated wiggler in a laser wakefield accelerator. AIP Conference Proceedings, 2016, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Intense underwater laser propagation, ionization and heating for remote shaped plasma generation. , 2016, , .		0
38	Nonlinear Laser-Dielectric Optical Media Interaction Modeling and Characterization. , 2021, , .		0
39	Intense Gamma Ray Pulses From Ultra-Relativistic Laser-Plasma Interactions* . , 2021, , .		0