

Bahman Hafizi

List of Publications by Year in descending order

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39
papers

403
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840776

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752698

20
g-index

41
all docs

41
docs citations

41
times ranked

316
citing authors

#	ARTICLE	IF	CITATIONS
1	Special unitary particle pusher for extreme fields. Computer Physics Communications, 2021, 258, 107628.	7.5	11
2	Thermionic emission of electrons from metal surfaces in the warm dense matter regime. Physics of Plasmas, 2021, 28, 083503.	1.9	2
3	Nonlinear Laser-Dielectric Optical Media Interaction Modeling and Characterization. , 2021, , .		0
4	Intense Gamma Ray Pulses From Ultra-Relativistic Laser-Plasma Interactions*. , 2021, , .		0
5	Dynamic sheath formation and sub-THz radiation from laser-metal interactions. Physics of Plasmas, 2020, 27, .	1.9	7
6	Broadband terahertz radiation from metal targets irradiated by a short pulse laser. Physics of Plasmas, 2020, 27, .	1.9	5
7	Compression of Terawatt Long-Wavelength Laser Pulses Through Backward Raman Amplification. , 2018, , .		1
8	Ideal form of optical plasma lenses. Physics of Plasmas, 2018, 25, 063101.	1.9	6
9	Staging and laser acceleration of ions in underdense plasma. AIP Conference Proceedings, 2017, , .	0.4	1
10	Superponderomotive regime of tunneling ionization. Physical Review A, 2017, 95, .	2.5	5
11	Pushing particles in extreme fields. AIP Conference Proceedings, 2017, , .	0.4	5
12	Self-channeling of high-power laser pulses through strong atmospheric turbulence. Physical Review A, 2017, 96, .	2.5	30
13	A nonlinear plasma retroreflector for single pulse Compton backscattering. AIP Conference Proceedings, 2016, , .	0.4	0
14	Prospects of coherent Compton backscattered X-rays from self-generated wiggler in a laser wakefield accelerator. AIP Conference Proceedings, 2016, , .	0.4	0
15	Nonlinear frequency shift in Raman backscattering and its implications for plasma diagnostics. Physics of Plasmas, 2016, 23, .	1.9	11
16	Intense underwater laser propagation, ionization and heating for remote shaped plasma generation. , 2016, , .		0
17	Active remote detection of radioactivity based on electromagnetic signatures. Physics of Plasmas, 2014, 21, .	1.9	28
18	High-power, high-intensity laser propagation and interactions. Physics of Plasmas, 2014, 21, .	1.9	17

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19	Laser heating of uncoated optics in a convective medium. Applied Optics, 2012, 51, 2573.	1.8	6
20	Laser-pumped coherent x-ray free-electron laser. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	42
21	Propagation of ultra-short, intense laser pulses in air. Physics of Plasmas, 2004, 11, 2865-2874.	1.9	67
22	Relativistic effects on intense laser beam propagation in plasma channels. Physics of Plasmas, 2003, 10, 1483-1492.	1.9	54
23	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
24	Raman sidescatter in numerical models of short pulse laser plasma interactions. Physics of Plasmas, 2002, 9, 1157-1163.	1.9	11
25	Kinetic effects in high gain free-electron lasers. AIP Conference Proceedings, 2002, , .	0.4	0
26	Measurements of energetic electrons from the high-intensity laser ionization of gases. Physics of Plasmas, 2001, 8, 2481-2487.	1.9	37
27	Guiding and stability of short laser pulses in partially stripped ionizing plasmas. Physics of Plasmas, 1999, 6, 1683-1689.	1.9	22
28	Ionization and pulse lethargy effects in inverse Cherenkov accelerators. Applied Physics Letters, 1997, 70, 2198-2200.	3.3	3
29	Proof-of-principle experiment of the vacuum beat wave accelerator. , 1997, , .		0
30	Ionization effects in inverse cherenkov accelerators. , 1997, , .		0
31	X-band magnicon amplifier research at the Naval Research Laboratory. AIP Conference Proceedings, 1995, , .	0.4	1
32	Optimization studies of magnicon efficiency. Physics of Plasmas, 1995, 2, 902-914.	1.9	6
33	Nonlinear analysis of a magnicon output cavity. Physics of Fluids B, 1993, 5, 3045-3055.	1.7	12
34	Key physics issues affecting the performance of free-electron lasers. , 1992, , .		2
35	Radio-frequency linac-driven free-electron laser configurations. Journal of Applied Physics, 1989, 66, 1549-1555.	2.5	6
36	Sideband instability in a free electron laser. , 1987, , .		0

#	ARTICLE	IF	CITATIONS
37	Synchrotron-betatron Parametric Instability In Free-electron Lasers. , 0, , .		0
38	Wakefields generated by a tightly focused laser beam. , 0, , .		0
39	Electron distribution function due to ionizing laser pulse. , 0, , .		0