S-H Chen

List of Publications by Year
in descending order

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42	220	1040056	1125743
papers	citations	9	13
		h-index	g-index

42	42	42	260
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation study for the spectral broadening and compression of a sub-TW laser pulse to a few-cycle duration in a dense gas target. Physics of Plasmas, 2022, 29, 012305.	1.9	1
2	Robustness of large-area suspended graphene under interaction with intense laser. Scientific Reports, 2022, 12, 2346.	3.3	11
3	The Uses of a Dual-Band Corrugated Circularly Polarized Horn Antenna for 5G Systems. Micromachines, 2022, 13, 289.	2.9	2
4	Efficient hybrid acceleration scheme for generating 100 MeV protons with tabletop dual-laser pulses. Physics of Plasmas, 2021, 28, .	1.9	3
5	Simulation study of ionization-induced injection in sub-terawatt laser wakefield acceleration. Physics of Plasmas, 2020, 27, .	1.9	10
6	Laser wakefield acceleration driven by a few-terawatt laser pulse in a sub-mm nitrogen gas jet. Physics of Plasmas, 2020, 27, .	1.9	9
7	Collective Thomson scattering in non-equilibrium laser produced two-stream plasmas. Physics of Plasmas, 2020, 27, .	1.9	8
8	High performance and high power circularly polarized horn antenna for K-band microwave processing systems. Review of Scientific Instruments, 2019, 90, 014707.	1.3	4
9	Spatio-temporal behavior of density jumps and the effect of neutral depletion in high-density helicon plasma. Physics of Plasmas, 2019, 26, 053504.	1.9	6
10	Underlying competition mechanisms in the dynamic profile formation of high-density helicon plasma. Physics of Plasmas, 2019, 26, 023517.	1.9	13
11	Radiation pressure injection in laser-wakefield acceleration. Physics of Plasmas, 2018, 25, .	1.9	5
12	Simulation study of the sub-terawatt laser wakefield acceleration operated in self-modulated regime. Physics of Plasmas, 2018, 25, 023101.	1.9	10
13	A comparative study of single-wire and hollow metallic waveguides for terahertz waves. AIP Advances, 2018, 8, 115028.	1.3	6
14	Effect of driving pulse properties on the performance of sub-terawatt laser wakefield acceleration. AIP Advances, 2018, 8, 105009.	1.3	3
15	Magnetic reconnection driven by electron dynamics. Nature Communications, 2018, 9, 5109.	12.8	26
16	Interferometry Based EUV Spectrometer. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	1
17	Numerical thermalization in one- and two-dimensional particle-in-cell simulations with Monte-Carlo collisions. , 2016, , .		0
18	Effects of the precursor electron bunch on quasi-phase matched direct laser acceleration. Physics of Plasmas, 2016, 23, 123110.	1.9	1

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19	Spontaneous focusing of plasma flow in a weak perpendicular magnetic field. Physics of Plasmas, 2016, 23, .	1.9	12
20	Space-charge limited density of consecutively injected electron pulses with uniform separation. , 2015, , .		0
21	Laser acceleration of protons using multi-ion plasma gaseous targets. New Journal of Physics, 2015, 17, 023018.	2.9	6
22	Numerical thermalization of two-dimensional plasmas in the presence of binary collisions with the particle-in-cell method. , 2014, , .		0
23	Spot size dependence of laser accelerated protons in thin multi-ion foils. Physics of Plasmas, 2014, 21, 063102.	1.9	3
24	Two-dimensional relativistic space charge limited current flow in the drift space. Physics of Plasmas, 2014, 21, 043101.	1.9	7
25	3-D PIC simulation of quasi-phase matched direct laser electron acceleration with introduction of a precursor electron bunch. , 2014, , .		0
26	Two-dimensional space charged limiting current density of a long-pulse electron flow in drift space. , 2013, , .		0
27	Enhancement of proton energy by polarization switch in laser acceleration of multi-ion foils. Physics of Plasmas, 2013, 20, 103112.	1.9	3
28	Nonstationary oscillation of gyrotron backward wave oscillators with cylindrical interaction structure. Physics of Plasmas, 2013, 20, .	1.9	2
29	Influences of amplified spontaneous emission on fiber laser amplifier chain. , 2013, , .		0
30	Nonstationary oscillations of gyrotron backward wave oscillators. , 2013, , .		0
31	Linear and nonlinear behaviors of gyrotron backward wave oscillators. Physics of Plasmas, 2012, 19, .	1.9	8
32	Theoretical studies of gyrotron backward wave oscillators. , 2012, , .		0
33	Relativistic birefringence induced by a high-intensity laser field in a plasma. Physical Review A, 2011, 83, .	2.5	2
34	Effects of long-line reflection on the instantaneous tunability of gyrotron backward-wave oscillators. , 2011, , .		0
35	Two-dimensional electromagnetic Childâ€“Langmuir law of a short-pulse electron flow. Physics of Plasmas, 2011, 18, .	1.9	13
36	Generation of intense ultrashort midinfrared pulses by laser-plasma interaction in the bubble regime. Physical Review A, 2010, 82, .	2.5	18

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37	Beam energy scaling of a stably operated laser wakefield accelerator. Physics of Plasmas, 2010, 17, .	1.9	5
38	Beam energy scaling of a stably operated laser wakefield accelerator. , 2009, , .		0
39	Modeling of longtitudinual spacecharge-effects for the monoenergetic electron beam in a laser wakefield accelerator. , 2009, , .		0
40	Short-pulse space-charge-limited electron flows in a drift space. Physics of Plasmas, 2008, 15, 063105.	1.9	5
41	Study of Beam Energy Saturation in Laser Wake Field Accelerators. , 2007, , .		0
42	Stable, high efficiency gyrotron backward-wave oscillator. Physics of Plasmas, 2007, 14, .	1.9	17