

S-H Chen

List of Publications by Year in descending order

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42
papers

220
citations

1040056

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1125743

13
g-index

42
all docs

42
docs citations

42
times ranked

260
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic reconnection driven by electron dynamics. Nature Communications, 2018, 9, 5109.	12.8	26
2	Generation of intense ultrashort midinfrared pulses by laser-plasma interaction in the bubble regime. Physical Review A, 2010, 82, .	2.5	18
3	Stable, high efficiency gyrotron backward-wave oscillator. Physics of Plasmas, 2007, 14, .	1.9	17
4	Two-dimensional electromagnetic Child-Langmuir law of a short-pulse electron flow. Physics of Plasmas, 2011, 18, .	1.9	13
5	Underlying competition mechanisms in the dynamic profile formation of high-density helicon plasma. Physics of Plasmas, 2019, 26, 023517.	1.9	13
6	Spontaneous focusing of plasma flow in a weak perpendicular magnetic field. Physics of Plasmas, 2016, 23, .	1.9	12
7	Robustness of large-area suspended graphene under interaction with intense laser. Scientific Reports, 2022, 12, 2346.	3.3	11
8	Simulation study of the sub-terawatt laser wakefield acceleration operated in self-modulated regime. Physics of Plasmas, 2018, 25, 023101.	1.9	10
9	Simulation study of ionization-induced injection in sub-terawatt laser wakefield acceleration. Physics of Plasmas, 2020, 27, .	1.9	10
10	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
11	Linear and nonlinear behaviors of gyrotron backward wave oscillators. Physics of Plasmas, 2012, 19, .	1.9	8
12	Collective Thomson scattering in non-equilibrium laser produced two-stream plasmas. Physics of Plasmas, 2020, 27, .	1.9	8
13	Two-dimensional relativistic space charge limited current flow in the drift space. Physics of Plasmas, 2014, 21, 043101.	1.9	7
14	Laser acceleration of protons using multi-ion plasma gaseous targets. New Journal of Physics, 2015, 17, 023018.	2.9	6
15	A comparative study of single-wire and hollow metallic waveguides for terahertz waves. AIP Advances, 2018, 8, 115028.	1.3	6
16	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
17	Short-pulse space-charge-limited electron flows in a drift space. Physics of Plasmas, 2008, 15, 063105.	1.9	5
18	Beam energy scaling of a stably operated laser wakefield accelerator. Physics of Plasmas, 2010, 17, .	1.9	5

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19	Radiation pressure injection in laser-wakefield acceleration. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	5
20	High performance and high power circularly polarized horn antenna for K-band microwave processing systems. <i>Review of Scientific Instruments</i> , 2019, 90, 014707.	1.3	4
21	Enhancement of proton energy by polarization switch in laser acceleration of multi-ion foils. <i>Physics of Plasmas</i> , 2013, 20, 103112.	1.9	3
22	Spot size dependence of laser accelerated protons in thin multi-ion foils. <i>Physics of Plasmas</i> , 2014, 21, 063102.	1.9	3
23	Effect of driving pulse properties on the performance of sub-terawatt laser wakefield acceleration. <i>AIP Advances</i> , 2018, 8, 105009.	1.3	3
24	Efficient hybrid acceleration scheme for generating 100 MeV protons with tabletop dual-laser pulses. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
25	Relativistic birefringence induced by a high-intensity laser field in a plasma. <i>Physical Review A</i> , 2011, 83, .	2.5	2
26	Nonstationary oscillation of gyrotron backward wave oscillators with cylindrical interaction structure. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	2
27	The Uses of a Dual-Band Corrugated Circularly Polarized Horn Antenna for 5G Systems. <i>Micromachines</i> , 2022, 13, 289.	2.9	2
28	Effects of the precursor electron bunch on quasi-phase matched direct laser acceleration. <i>Physics of Plasmas</i> , 2016, 23, 123110.	1.9	1
29	Interferometry Based EUV Spectrometer. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	1
30	Simulation study for the spectral broadening and compression of a sub-TW laser pulse to a few-cycle duration in a dense gas target. <i>Physics of Plasmas</i> , 2022, 29, 012305.	1.9	1
31	Study of Beam Energy Saturation in Laser Wake Field Accelerators. , 2007, , .		0
32	Beam energy scaling of a stably operated laser wakefield accelerator. , 2009, , .		0
33	Modeling of longitudinal spacecharge-effects for the monoenergetic electron beam in a laser wakefield accelerator. , 2009, , .		0
34	Effects of long-line reflection on the instantaneous tunability of gyrotron backward-wave oscillators. , 2011, , .		0
35	Theoretical studies of gyrotron backward wave oscillators. , 2012, , .		0
36	Two-dimensional space charged limiting current density of a long-pulse electron flow in drift space. , 2013, , .		0

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37	Influences of amplified spontaneous emission on fiber laser amplifier chain. , 2013, , .		0
38	Nonstationary oscillations of gyrotron backward wave oscillators. , 2013, , .		0
39	Numerical thermalization of two-dimensional plasmas in the presence of binary collisions with the particle-in-cell method. , 2014, , .		0
40	3-D PIC simulation of quasi-phase matched direct laser electron acceleration with introduction of a precursor electron bunch. , 2014, , .		0
41	Space-charge limited density of consecutively injected electron pulses with uniform separation. , 2015, , .		0
42	Numerical thermalization in one- and two-dimensional particle-in-cell simulations with Monte-Carlo collisions. , 2016, , .		0