Dagang Liu

List of Publications by Year
in descending order

		1478505	794594
26 papers	**372** citations	**6** h-index	**19** g-index
26 all docs	**26** docs citations	**26** times ranked	**220** citing authors

#	Article	IF	Citations
1	CHIPIC: An Efficient Code for Electromagnetic PIC Modeling and Simulation. IEEE Transactions on Plasma Science, 2009, 37, 2002-2011.	1.3	240
2	Development of a fusion-oriented pulsed power module. Physical Review Accelerators and Beams, 2019, 22, .	1.6	20
3	Rescaling of microwave breakdown theory for monatomic gases by particle-in-cell/Monte Carlo simulations. Physics of Plasmas, 2013, 20, 122102.	1.9	19
4	Investigation on high inductive helical supported magnetically insulated transmission line on a 10-stage linear transformer driver system. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	15
5	Current Transmission Efficiency for Conical Magnetically Insulated Transmission Line on a 1.0-MV Linear Transformer Driver System. IEEE Transactions on Plasma Science, 2015, 43, 2663-2669.	1.3	14
6	Magnetically insulated theory with both electron and ion flows. Physics of Plasmas, 2012, 19, .	1.9	10
7	Application of energy-balance model from gas discharge to single-surface multipactor. Plasma Sources Science and Technology, 2020, 29, 125012.	3.1	7
8	The ionization rate under a general magnetic field for microwave breakdown. Physics of Plasmas, 2014, 21, 073508.	1.9	6
9	Theory of plasma propagation from microlayer discharges in vacuum window breakdown. Physics of Plasmas, 2018, 25, 010703.	1.9	6
10	Effects of microwave frequency on growth rate of upstream dielectric multipactor. Plasma Sources Science and Technology, 2020, 29, 037001.	3.1	5
11	Numerical Study of a Multibeam Klystron on the Milky Way High-Performance Computing Platform. IEEE Transactions on Electron Devices, 2017, 64, 1857-1860.	3.0	4
12	Design of confocal waveguide interaction structure for a 220ÂGHz gyro-TWT. Journal of Electromagnetic Waves and Applications, 2017, 31, 650-662.	1.6	4
13	Coaxialâ€"Conical Transition in Magnetically Insulated Transmission Line. IEEE Transactions on Plasma Science, 2018, 46, 1913-1920.	1.3	4
14	Influence of magnetic shielding on electron dynamics characteristics of Penning ion source. AIP Advances, 2021, 11, .	1.3	4
15	Direct generation of a circularly polarized TE_{11} mode in a relativistic backward wave oscillator by loading anisotropic medium. Journal Physics D: Applied Physics, 2021, 54, 075206.	2.8	3
16	Large-scale parallel computing research on full three-dimensional PIC method based on difference equations. Journal of Difference Equations and Applications, 2017, 23, 367-385.	1.1	2
17	Study on the Correlation between Magnetic Field Structure and Cold Electron Transport in Negative Hydrogen Ion Sources. Applied Sciences (Switzerland), 2022, 12, 4104.	2.5	2
18	Several key technologies in particle-in-cell (PIC) simulation software. Proceedings of SPIE, 2007, , .	0.8	1

#	Article	IF	Citations
19	Global optimization methods to design vacuum electronic devices. , 2016, , .		1
20	Ka-band relativistic diffraction generator with a tapered coaxial Bragg reflector. AIP Advances, 2017, 7, 115020.	1.3	1
21	220GHz confocal waveguide Gyro-TWT with double lossy severs. , 2017, , .		1
22	PIC simulation of the vacuum power flow for a 5 terawatt, 5 MV, 1 MA pulsed power system. AIP Advances, 2018, 8, 035112.	1.3	1
23	Attenuation and Reflection of TEM and TE Microwaves Through a Dielectric With Multipactor. IEEE Transactions on Electron Devices, 2022, 69, 4598-4603.	3.0	1
24	Research on parallel algorithm of high-power microwave devices simulation based on MPI-3. AIP Advances, 2022, 12, 075313.	1.3	1
25	The 3-D numerical simulation research of vacuum injector for linear induction accelerator. AIP Advances, 2017, 7, 015037.	1.3	0
26	UPML Boundary Adapted to High-Q FDTD Algorithm and Its Application in High-Power Microwave Source With High-Q Value. IEEE Transactions on Plasma Science, 2022, 50, 2305-2314.	1.3	0