Yongdong Li

List of Publications by Year
in descending order

92	1,084	482844 16	445597 30
papers	citations	h-index	g-index

96	96	96	1051
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of THz Waves of Different Orientations on K+ Permeation Efficiency in the KcsA Channel. International Journal of Molecular Sciences, 2024, 25, 429.	4.2	0
2	An extension of first principle combined Monte Carlo method to simulate secondary electron yield of anisotropic crystal Al2O3. Journal of Applied Physics, 2024, 135, .	2.3	1
3	Deep Learning Assisted Inverse Design of High-Power Microwave Devices. IEEE Transactions on Plasma Science, 2024, , 1-6.	1.4	1
4	Particle-in-Cell Simulation of the Impact of High-Energy Secondary Electrons on a Ka-Band TM$_{03}$ Relativistic Backward-Wave Oscillator. IEEE Transactions on Plasma Science, 2024, , 1-5.	1.4	0
5	Study on the Impact of Terahertz Electric Fields on the Kv1.2 Potassium Ion Channel. IEEE Transactions on Plasma Science, 2024, 52, 1515-1521.	1.4	0
6	Theoretical Investigation on Double-Matched Marx Generators. IEEE Transactions on Power Electronics, 2024, 39, 8342-8352.	8.1	0
7	Two-Dimensional Model of Supersonic Expansion Argon Plasma in Micro Hollow Cathode Discharge: A Comparison of Maxwellian and Non-Maxwellian EEDFs. IEEE Transactions on Plasma Science, 2024, , 1-6.	1.4	0
8	Numerical and experimental study of supersonically expanding argon plasma using a micrometer hollow cathode discharge. Journal of Applied Physics, 2024, 135, .	2.3	0
9	Deep learning assisted optimization of Ka-band relativistic backward wave oscillator operating in TM03 mode with low guiding magnetic field. Journal of Applied Physics, 2024, 135, .	2.3	0
10	Effects of specular reflectance in laser-induced breakdown of metals. Applied Physics Letters, 2024, 125, .	3.2	0
11	Two-dimensional flat-band solitons in superhoneycomb lattices. Nanophotonics, 2024, .	6.3	0
12	Ï€ mode lasing in the non-Hermitian Floquet topological system. APL Photonics, 2024, 9, .	5.5	0
13	Floquet topological insulators with hybrid edges. Chaos, Solitons and Fractals, 2023, 166, 113010.	5.2	2
14	Investigation on Multipactor in Double-Sided Dielectric-Loaded Microwave Components. IEEE Transactions on Electron Devices, 2023, 70, 2897-2904.	3.2	3
15	Nonlinear photonic disclination states. APL Photonics, 2023, 8, .	5.5	7
16	Current Loss Mechanism of Magnetic Insulation Transmission Line With Helical Inductance Support. IEEE Transactions on Electron Devices, 2023, 70, 2890-2896.	3.2	1
17	Regulation of Ion Permeation of the KcsA Channel by Applied Midinfrared Field. International Journal of Molecular Sciences, 2023, 24, 556.	4.2	5
18	Low peak-to-average ratio 850 GHz backward wave oscillator for THz communication. Physics of Plasmas, 2023, 30, 043102.	1.9	1

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19	Quantitative analysis of multipactor threshold sensitivity to secondary emission yield of microwave devices. Physics of Plasmas, 2023, 30, .	1.9	3
20	Generation of diffraction-free Bessel beams based on combined axicons. Optics and Laser Technology, 2023, 164, 109548.	4.6	4
21	Multi-Objective Optimization of High-Power Microwave Sources Based on Multi-Criteria Decision-Making and Multi-Objective Micro-Genetic Algorithm. IEEE Transactions on Electron Devices, 2023, 70, 3892-3898.	3.2	8
22	Effect of Terahertz Electromagnetic Field on the Permeability of Potassium Channel Kv1.2. International Journal of Molecular Sciences, 2023, 24, 10271.	4.2	2
23	A numerical investigation on electron runaway threshold at the initial stage of atmospheric streamer development. Physics of Plasmas, 2023, 30, .	1.9	1
24	Permeability enhancement of Kv1.2 potassium channel by a terahertz electromagnetic field. Journal of Chemical Physics, 2023, 159, .	3.1	5
25	The Critical State of GaAs Photoconductive Semiconductor Switch in a Capacitive Storage Loop. IEEE Photonics Technology Letters, 2023, 35, 1203-1206.	2.5	0
26	Theoretical Model and Particle-in-Cell Simulation of Vacuum Magnetically Insulated Electron Flow With Off-Centered Cross Section. IEEE Transactions on Electron Devices, 2023, 70, 5926-5933.	3.2	0
27	Effect analysis of spatial discrepancy of secondary emission yield on multipactor formation. Physics of Plasmas, 2023, 30, .	1.9	0
28	Modeling the saturation of the multipactor effect in a dielectric-loaded parallel-plate waveguide. Journal of Applied Physics, 2022, 131, .	2.3	4
29	Vector valley Hall edge solitons in the photonic lattice with type-II Dirac cones. Frontiers of Physics, 2022, 17, 1.	5.3	10
30	Evolution of vacuum surface flashover for angled dielectric insulators with particle-in-cell simulation. Physics of Plasmas, 2022, 29, .	1.9	7
31	Value-added waste substitution using slag and rubber aggregates in the sustainable and eco-friendly compressed brick production. Revista De La Construccion, 2022, 21, 5-20.	0.7	20
32	DC Breakdown Characteristics of Câ„‚Fâ‚‡N/COâ‚‚ Mixtures With Particle-in-Cell Simulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 1005-1010.	3.1	10
33	First-Principle Calculation on Inelastic Electron Scattering in Diamond and Graphite. Materials, 2022, 15, 3315.	3.0	2
34	Heat Exchanger Fouling Incident Following A Scale-Inhibitor Squeeze â€“ A Chemical Incompatibility Whodunnit. , 2022, , .		0
35	Effect of the Surface Morphology of Porous Coatings on Secondary Electron Yield of Metal Surface. Materials, 2022, 15, 4322.	3.0	2
36	Vector valley Hall edge solitons in superhoneycomb lattices. Chaos, Solitons and Fractals, 2022, 161, 112364.	5.2	8

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37	Transverse magnetic electromagnetic mode analysis with electron beam effect in overmoded waveguide of coaxial magnetic wiggler. AIP Advances, 2022, 12, 075319.	1.3	0
38	Electromagnetic and Electrostatic Particle-in-Cell Simulations for Multipactor in Parallel-Plate Waveguide. IEEE Transactions on Electron Devices, 2022, 69, 5832-5838.	3.2	3
39	Effect analysis of angular momentum on coaxial multipactor with 1D3V statistical modeling. Physics of Plasmas, 2022, 29, .	1.9	1
40	Porous evaporators with special wettability for low-grade heat-driven water desalination. Journal of Materials Chemistry A, 2021, 9, 702-726.	10.5	68
41	Nonlinear Valley Hall Edge States in Type-II Dirac Lattices. , 2021, , .		2
42	A Combined Susceptibility Diagram Including the Average Secondary Emission Yield on the Dielectric Surface. IEEE Microwave and Wireless Components Letters, 2021, 31, 137-140.	3.3	0
43	Improving the threshold of multipactor using a graded permittivity dielectric window. Physics of Plasmas, 2021, 28, .	1.9	3
44	Theory of topological corner state laser in Kagome waveguide arrays. APL Photonics, 2021, 6, .	5.5	44
45	Dark topological valley Hall edge solitons. Nanophotonics, 2021, 10, 3559-3566.	6.3	21
46	Investigation on Nonuniformity of Magnetic Field in Curved Coaxial Magnetically Insulated Transmission Line System. IEEE Transactions on Plasma Science, 2021, 49, 2373-2379.	1.4	0
47	Investigation on current loss of high-power vacuum transmission lines with coaxial-disk transitions by particle-in-cell simulations. Plasma Science and Technology, 2021, 23, 115601.	1.5	3
48	Investigation on the Mechanism of Triggering Efficiency of High-Power Avalanche GaAs Photoconductive Semiconductor Switch. IEEE Electron Device Letters, 2021, 42, 1646-1649.	4.2	16
49	Multipactor Statistical Modeling Regarding Space Charge Effect for Saturation Investigation. , 2021, , .		0
50	Valley Hall edge solitons in a photonic graphene. Optics Express, 2021, 29, 39755.	3.4	12
51	Topological states in the super-SSH model. Optics Express, 2021, 29, 42827.	3.4	29
52	The Effect of Angular Secondary Emission and Impact on Multipactor: Statistical Modeling and Threshold Analysis. , 2021, , .		0
53	3D PIC-MCC simulation of corona discharge in needle-plate electrode with external circuit. Plasma Sources Science and Technology, 2020, 29, 015020.	3.2	23
54	Study on N2â€“SF6 mixtures breakdown characteristics at the gas/dielectric interface of microwave window. Journal of Applied Physics, 2020, 128, 143301.	2.3	4

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55	Topological Valley Hall Edge State Lasing. Laser and Photonics Reviews, 2020, 14, 2000001.	10.1	47
56	Hormonal changes and reproductive health issues in females with tuberculosis. Indian Journal of Tuberculosis, 2020, 67, 3-7.	0.7	2
57	Plasma propagation in the microwave window breakdown at the air/dielectric interface. Plasma Sources Science and Technology, 2020, 29, 025013.	3.2	5
58	Enhanced multipactor statistical modeling for accurate threshold prediction with numerically tracking electron trajectories. Physics of Plasmas, 2020, 27, .	1.9	8
59	Unipic: A Conformal Particle-In-Cell Code for High Power Micrwowave and Pulse Discharge. , 2020, , .		1
60	Theoretical model for magnetically insulated flow with both negative and positive ions. Journal of Applied Physics, 2019, 126, 043301.	2.3	1
61	Substrate Temperature Dependent Microstructure and Electron-Induced Secondary Electron Emission Properties of Magnetron Sputter-Deposited Amorphous Carbon Films. Materials, 2019, 12, 2631.	3.0	6
62	Auditory brainstem responses in the red-eared slider Trachemys scripta elegans (Testudoformes:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 847-854.	1.7	12
63	A dynamical model of microwave window breakdown at vacuum/dielectric interface. Physics of Plasmas, 2019, 26, .	1.9	9
64	Particle-in-cell simulations of current loss in magnetically insulated transmission line with inductive helical support. Laser and Particle Beams, 2019, 37, 301-310.	1.0	3
65	Magnetic insulation in a curved vacuum transmission line. Journal of Applied Physics, 2019, 125, .	2.3	6
66	A Segmented Polynomial Model to Evaluate Passive Intermodulation Products From Low-Order PIM Measurements. IEEE Microwave and Wireless Components Letters, 2019, 29, 14-16.	3.3	12
67	A Composite Exponential Model to Characterize Nonlinearity Causing Passive Intermodulation Interference. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 590-594.	2.4	6
68	Effect of Secondary Emission Yield and Initial Charge of Dielectric Material on Multipactor in Parallel-Plate Dielectric-Loaded Waveguide. IEEE Transactions on Electron Devices, 2019, 66, 5333-5338.	3.2	15
69	Particle-in-cell simulations of cathode plasma evolution in small-gap magnetically insulated transmission lines. Journal of Applied Physics, 2019, 126, .	2.3	1
70	Particle-in-cell simulation for frequency up-conversion of microwave to terahertz radiation by a relativistic hollow ionization front. AIP Advances, 2019, 9, .	1.3	0
71	Suppression of high-power microwave window breakdown by the sweeping-out-electron effect with an external dc bias electric field. Physics of Plasmas, 2019, 26, .	1.9	9
72	Stationary statistical theory of two-surface multipactor regarding all impacts for efficient threshold analysis. Physics of Plasmas, 2018, 25, .	1.9	14

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73	A photoionization model considering lifetime of high excited states of N2 for PIC-MCC simulations of positive streamers in air. Physics of Plasmas, 2018, 25, .	1.9	24
74	A coaxial-output capacitor-loaded annular pulse forming line. Review of Scientific Instruments, 2018, 89, 044706.	1.4	5
75	Au Doping Effect on the Secondary Electron Emission Performance of MgO Films. Materials, 2018, 11, 2104.	3.0	7
76	Numerical simulation and analysis of passive intermodulation caused by multipaction. Physics of Plasmas, 2018, 25, .	1.9	16
77	2D particle-in-cell simulation of the entire process of surface flashover on insulator in vacuum. Physics of Plasmas, 2018, 25, .	1.9	19
78	Properties of Loss Front in Long Magnetically Insulated Transmission Lines. IEEE Transactions on Plasma Science, 2017, 45, 997-1003.	1.4	7
79	3D PIC-MCC simulations of positive streamers in air gaps. Physics of Plasmas, 2017, 24, .	1.9	18
80	Objective quantification of mode competition in THz BWO optimization. Physics of Plasmas, 2017, 24, 113101.	1.9	2
81	A new fractal-like tree structure of circular patch antennas for UWB and 5G multi-band applications. Microwave and Optical Technology Letters, 2017, 59, 2168-2174.	1.5	11
82	Secondary electron emission of graphene-coated copper. Diamond and Related Materials, 2017, 73, 199-203.	4.0	31
83	Experimental demonstration of improving resonant-multipactor threshold by three-dimensional wavy surface. Applied Physics Letters, 2017, 111, .	3.2	11
84	New Macroparticle Coalescing Models That Conserve Particleâ€™s Phase-Space Distribution in 3-D Particle-in-Cell Simulations of Plasmas. IEEE Transactions on Plasma Science, 2016, 44, 2638-2643.	1.4	5
85	Multipactor threshold calculation of coaxial transmission lines in microwave applications with nonstationary statistical theory. Physics of Plasmas, 2015, 22, .	1.9	28
86	Three-dimensional parallel<scp>UNIPIC-3D</scp>code for simulations of high-power microwave devices. Physics of Plasmas, 2010, 17, 073107.	1.9	93
87	Compensated Monte Carlo Collision Model for Particle-in-Cell Simulation in High-Pressure Plasmas. IEEE Transactions on Plasma Science, 2010, 38, 2062-2068.	1.4	5
88	<scp>UNIPIC</scp> code for simulations of high power microwave devices. Physics of Plasmas, 2009, 16, .	1.9	178
89	Enhancement of Water Permeation across a Nanochannel by the Structure outside the Channel. Physical Review Letters, 2008, 101, 257801.	8.0	92
90	Two-dimensional Childâ€“Langmuir law of planar diode with finite-radius emitter. Applied Surface Science, 2005, 251, 19-23.	6.3	12

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91	Building a common feature hypothesis for thymidylate synthase inhibition. Bioorganic and Medicinal Chemistry, 2000, 8, 11-17.	3.1	13
92	Correlation between granulocyte/macrophage-colony-forming units and CD34 + cells in apheresis products from patients treated with different chemotherapy regimens and granulocyte-colony-stimulating factor to mobilize peripheral blood progenitor cells. Journal of Cancer Research and Clinical Oncology, 1998, 124, 341-345.	2.6	12