

# Yongdong Li

## List of Publications by Year in descending order

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92  
papers

1,084  
citations

482844

16  
h-index

445597

30  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1051  
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>UNIPIC</scp> code for simulations of high power microwave devices. Physics of Plasmas, 2009, 16, .	1.9	178
2	Three-dimensional parallel<scp>UNIPIC-3D</scp> code for simulations of high-power microwave devices. Physics of Plasmas, 2010, 17, 073107.	1.9	93
3	Enhancement of Water Permeation across a Nanochannel by the Structure outside the Channel. Physical Review Letters, 2008, 101, 257801.	8.0	92
4	Porous evaporators with special wettability for low-grade heat-driven water desalination. Journal of Materials Chemistry A, 2021, 9, 702-726.	10.5	68
5	Topological Valley Hall Edge State Lasing. Laser and Photonics Reviews, 2020, 14, 2000001.	10.1	47
6	Theory of topological corner state laser in Kagome waveguide arrays. APL Photonics, 2021, 6, .	5.5	44
7	Secondary electron emission of graphene-coated copper. Diamond and Related Materials, 2017, 73, 199-203.	4.0	31
8	Topological states in the super-SSH model. Optics Express, 2021, 29, 42827.	3.4	29
9	Multipactor threshold calculation of coaxial transmission lines in microwave applications with nonstationary statistical theory. Physics of Plasmas, 2015, 22, .	1.9	28
10	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
11	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
12	Dark topological valley Hall edge solitons. Nanophotonics, 2021, 10, 3559-3566.	6.3	21
13	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
14	2D particle-in-cell simulation of the entire process of surface flashover on insulator in vacuum. Physics of Plasmas, 2018, 25, .	1.9	19
15	3D PIC-MCC simulations of positive streamers in air gaps. Physics of Plasmas, 2017, 24, .	1.9	18
16	Numerical simulation and analysis of passive intermodulation caused by multipaction. Physics of Plasmas, 2018, 25, .	1.9	16
17	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
18	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

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19	Stationary statistical theory of two-surface multipactor regarding all impacts for efficient threshold analysis. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	14
20	Building a common feature hypothesis for thymidylate synthase inhibition. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 11-17.	3.1	13
21	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. <i>Journal of Cancer Research and Clinical Oncology</i> , 1998, 124, 341-345.	2.6	12
22	Two-dimensional Childâ€™Langmuir law of planar diode with finite-radius emitter. <i>Applied Surface Science</i> , 2005, 251, 19-23.	6.3	12
23	Auditory brainstem responses in the red-eared slider <i>Trachemys scripta elegans</i> (Testudoformes:) Tj ETQq1 1 0.784314 rgBT /Overlock Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 847-854.	1.7	12
24	A Segmented Polynomial Model to Evaluate Passive Intermodulation Products From Low-Order PIM Measurements. <i>IEEE Microwave and Wireless Components Letters</i> , 2019, 29, 14-16.	3.3	12
25	Valley Hall edge solitons in a photonic graphene. <i>Optics Express</i> , 2021, 29, 39755.	3.4	12
26	A new fractal-like tree structure of circular patch antennas for UWB and 5G multi-band applications. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 2168-2174.	1.5	11
27	Experimental demonstration of improving resonant-multipactor threshold by three-dimensional wavy surface. <i>Applied Physics Letters</i> , 2017, 111, .	3.2	11
28	Vector valley Hall edge solitons in the photonic lattice with type-II Dirac cones. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.3	10
29	DC Breakdown Characteristics of Câ„,Fâ„N/COâ„ Mixtures With Particle-in-Cell Simulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, 29, 1005-1010.	3.1	10
30	A dynamical model of microwave window breakdown at vacuum/dielectric interface. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
31	Suppression of high-power microwave window breakdown by the sweeping-out-electron effect with an external dc bias electric field. <i>Physics of Plasmas</i> , 2019, 26, .	1.9	9
32	Enhanced multipactor statistical modeling for accurate threshold prediction with numerically tracking electron trajectories. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	8
33	Vector valley Hall edge solitons in superhoneycomb lattices. <i>Chaos, Solitons and Fractals</i> , 2022, 161, 112364.	5.2	8
34	Multi-Objective Optimization of High-Power Microwave Sources Based on Multi-Criteria Decision-Making and Multi-Objective Micro-Genetic Algorithm. <i>IEEE Transactions on Electron Devices</i> , 2023, 70, 3892-3898.	3.2	8
35	Properties of Loss Front in Long Magnetically Insulated Transmission Lines. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 997-1003.	1.4	7
36	Au Doping Effect on the Secondary Electron Emission Performance of MgO Films. <i>Materials</i> , 2018, 11, 2104.	3.0	7

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37	Evolution of vacuum surface flashover for angled dielectric insulators with particle-in-cell simulation. <i>Physics of Plasmas</i> , 2022, 29, .	1.9	7
38	Nonlinear photonic disclination states. <i>APL Photonics</i> , 2023, 8, .	5.5	7
39	Substrate Temperature Dependent Microstructure and Electron-Induced Secondary Electron Emission Properties of Magnetron Sputter-Deposited Amorphous Carbon Films. <i>Materials</i> , 2019, 12, 2631.	3.0	6
40	Magnetic insulation in a curved vacuum transmission line. <i>Journal of Applied Physics</i> , 2019, 125, .	2.3	6
41	A Composite Exponential Model to Characterize Nonlinearity Causing Passive Intermodulation Interference. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 590-594.	2.4	6
42	Compensated Monte Carlo Collision Model for Particle-in-Cell Simulation in High-Pressure Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2010, 38, 2062-2068.	1.4	5
43	New Macroparticle Coalescing Models That Conserve Particle's Phase-Space Distribution in 3-D Particle-in-Cell Simulations of Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2638-2643.	1.4	5
44	A coaxial-output capacitor-loaded annular pulse forming line. <i>Review of Scientific Instruments</i> , 2018, 89, 044706.	1.4	5
45	Plasma propagation in the microwave window breakdown at the air/dielectric interface. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025013.	3.2	5
46	Regulation of Ion Permeation of the KcsA Channel by Applied Midinfrared Field. <i>International Journal of Molecular Sciences</i> , 2023, 24, 556.	4.2	5
47	Permeability enhancement of Kv1.2 potassium channel by a terahertz electromagnetic field. <i>Journal of Chemical Physics</i> , 2023, 159, .	3.1	5
48	Study on N <sub>2</sub> -SF <sub>6</sub> mixtures breakdown characteristics at the gas/dielectric interface of microwave window. <i>Journal of Applied Physics</i> , 2020, 128, 143301.	2.3	4
49	Modeling the saturation of the multipactor effect in a dielectric-loaded parallel-plate waveguide. <i>Journal of Applied Physics</i> , 2022, 131, .	2.3	4
50	Generation of diffraction-free Bessel beams based on combined axicons. <i>Optics and Laser Technology</i> , 2023, 164, 109548.	4.6	4
51	Particle-in-cell simulations of current loss in magnetically insulated transmission line with inductive helical support. <i>Laser and Particle Beams</i> , 2019, 37, 301-310.	1.0	3
52	Improving the threshold of multipactor using a graded permittivity dielectric window. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	3
53	Investigation on current loss of high-power vacuum transmission lines with coaxial-disk transitions by particle-in-cell simulations. <i>Plasma Science and Technology</i> , 2021, 23, 115601.	1.5	3
54	Electromagnetic and Electrostatic Particle-in-Cell Simulations for Multipactor in Parallel-Plate Waveguide. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 5832-5838.	3.2	3

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55	Investigation on Multipactor in Double-Sided Dielectric-Loaded Microwave Components. IEEE Transactions on Electron Devices, 2023, 70, 2897-2904.	3.2	3
56	Quantitative analysis of multipactor threshold sensitivity to secondary emission yield of microwave devices. Physics of Plasmas, 2023, 30, .	1.9	3
57	Objective quantification of mode competition in THz BWO optimization. Physics of Plasmas, 2017, 24, 113101.	1.9	2
58	Hormonal changes and reproductive health issues in females with tuberculosis. Indian Journal of Tuberculosis, 2020, 67, 3-7.	0.7	2
59	Nonlinear Valley Hall Edge States in Type-II Dirac Lattices. , 2021, , .		2
60	First-Principle Calculation on Inelastic Electron Scattering in Diamond and Graphite. Materials, 2022, 15, 3315.	3.0	2
61	Effect of the Surface Morphology of Porous Coatings on Secondary Electron Yield of Metal Surface. Materials, 2022, 15, 4322.	3.0	2
62	Floquet topological insulators with hybrid edges. Chaos, Solitons and Fractals, 2023, 166, 113010.	5.2	2
63	Effect of Terahertz Electromagnetic Field on the Permeability of Potassium Channel Kv1.2. International Journal of Molecular Sciences, 2023, 24, 10271.	4.2	2
64	Theoretical model for magnetically insulated flow with both negative and positive ions. Journal of Applied Physics, 2019, 126, 043301.	2.3	1
65	Particle-in-cell simulations of cathode plasma evolution in small-gap magnetically insulated transmission lines. Journal of Applied Physics, 2019, 126, .	2.3	1
66	Unipic: A Conformal Particle-In-Cell Code for High Power Microwave and Pulse Discharge. , 2020, , .		1
67	Effect analysis of angular momentum on coaxial multipactor with 1D3V statistical modeling. Physics of Plasmas, 2022, 29, .	1.9	1
68	Current Loss Mechanism of Magnetic Insulation Transmission Line With Helical Inductance Support. IEEE Transactions on Electron Devices, 2023, 70, 2890-2896.	3.2	1
69	Low peak-to-average ratio 850 GHz backward wave oscillator for THz communication. Physics of Plasmas, 2023, 30, 043102.	1.9	1
70	A numerical investigation on electron runaway threshold at the initial stage of atmospheric streamer development. Physics of Plasmas, 2023, 30, .	1.9	1
71	An extension of first principle combined Monte Carlo method to simulate secondary electron yield of anisotropic crystal Al <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2024, 135, .	2.3	1
72	Deep Learning Assisted Inverse Design of High-Power Microwave Devices. IEEE Transactions on Plasma Science, 2024, , 1-6.	1.4	1

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73	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
74	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
75	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
76	Multipactor Statistical Modeling Regarding Space Charge Effect for Saturation Investigation. , 2021, , .		0
77	The Effect of Angular Secondary Emission and Impact on Multipactor: Statistical Modeling and Threshold Analysis. , 2021, , .		0
78	Heat Exchanger Fouling Incident Following A Scale-Inhibitor Squeeze – A Chemical Incompatibility Whodunnit. , 2022, , .		0
79	Transverse magnetic electromagnetic mode analysis with electron beam effect in overmoded waveguide of coaxial magnetic wiggler. AIP Advances, 2022, 12, 075319.	1.3	0
80	The Critical State of GaAs Photoconductive Semiconductor Switch in a Capacitive Storage Loop. IEEE Photonics Technology Letters, 2023, 35, 1203-1206.	2.5	0
81	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
82	Effect analysis of spatial discrepancy of secondary emission yield on multipactor formation. Physics of Plasmas, 2023, 30, .	1.9	0
83	Effect of THz Waves of Different Orientations on K <sup>+</sup> Permeation Efficiency in the KcsA Channel. International Journal of Molecular Sciences, 2024, 25, 429.	4.2	0
84	Particle-in-Cell Simulation of the Impact of High-Energy Secondary Electrons on a Ka-Band TM <sub>03</sub> Relativistic Backward-Wave Oscillator. IEEE Transactions on Plasma Science, 2024, , 1-5.	1.4	0
85	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
86	Theoretical Investigation on Double-Matched Marx Generators. IEEE Transactions on Power Electronics, 2024, 39, 8342-8352.	8.1	0
87	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
88	Numerical and experimental study of supersonically expanding argon plasma using a micrometer hollow cathode discharge. Journal of Applied Physics, 2024, 135, .	2.3	0
89	Deep learning assisted optimization of Ka-band relativistic backward wave oscillator operating in TM <sub>03</sub> mode with low guiding magnetic field. Journal of Applied Physics, 2024, 135, .	2.3	0
90	Effects of specular reflectance in laser-induced breakdown of metals. Applied Physics Letters, 2024, 125, .	3.2	0

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91	Two-dimensional flat-band solitons in superhoneycomb lattices. <i>Nanophotonics</i> , 2024, .	6.3	0
92	<i>Œ</i> mode lasing in the non-Hermitian Floquet topological system. <i>APL Photonics</i> , 2024, 9, .	5.5	0