

# Yong-ning He

## List of Publications by Year in descending order

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89  
papers

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citations

471509

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docs citations

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times ranked

1232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Performance of a Self-Powered Organic/Inorganic Photodetector by Pyro-Phototronic and Piezo-Phototronic Effects. <i>Advanced Materials</i> , 2017, 29, 1606698.	21.0	157
2	Suppression of secondary electron yield by micro-porous array structure. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	101
3	Temperature dependence of pyro-phototronic effect on self-powered ZnO/perovskite heterostructured photodetectors. <i>Nano Research</i> , 2016, 9, 3695-3704.	10.4	87
4	Study of the photoconductive ZnO UV detector based on the electrically floated nanowire array. <i>Sensors and Actuators A: Physical</i> , 2012, 181, 6-12.	4.1	77
5	Surface acoustic wave ultraviolet detector based on zinc oxide nanowire sensing layer. <i>Sensors and Actuators A: Physical</i> , 2012, 184, 34-40.	4.1	54
6	Femtosecond laser preparing patternable liquid-metal-repellent surface for flexible electronics. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 146-154.	9.4	38
7	Investigation into anomalous total secondary electron yield for micro-porous Ag surface under oblique incidence conditions. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	37
8	Theoretical Study of Triboelectric-Potential Gated/Driven Metal-Oxide-Semiconductor Field-Effect Transistor. <i>ACS Nano</i> , 2016, 10, 4395-4402.	14.6	36
9	Pyro-phototronic effect enhanced ZnO nanowire-based tri-layer heterojunction for visible light sensing and communication. <i>Nano Energy</i> , 2020, 78, 105268.	16.0	36
10	Analytic Passive Intermodulation Behavior on the Coaxial Connector Using Monte Carlo Approximation. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2018, 60, 1207-1214.	2.2	35
11	Nanosecond X-ray detector based on high resistivity ZnO single crystal semiconductor. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	34
12	Analytic Passive Intermodulation Model for Flange Connection Based on Metallic Contact Nonlinearity Approximation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 2279-2287.	4.6	29
13	Mechanism of total electron emission yield reduction using a micro-porous surface. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	28
14	Reconfigurable Passive Intermodulation Behavior on Nickel-Coated Cell Array. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017, 59, 1027-1034.	2.2	24
15	A High-Resistivity ZnO Film-Based Photoconductive X-Ray Detector. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 365-368.	2.5	21
16	Empirical Modeling of Contact Intermodulation Effect on Coaxial Connectors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 5091-5099.	4.7	20
17	A Folded Contactless Waveguide Flange for Low Passive-Intermodulation Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 864-866.	3.2	19
18	Novel Programmable Passive Intermodulation Generator Using Nonlinear Rotating Disk. <i>IEEE Microwave and Wireless Components Letters</i> , 2017, 27, 945-947.	3.2	18

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19	Experimental Verification of Multipactor Discharge Dynamics Between Ferrite Dielectric and Metal. IEEE Transactions on Electron Devices, 2018, 65, 4592-4599.	3.0	18
20	Thermal evaporated hyperbranched Ag nanostructure as an effective secondary-electron trapping surface coating. AIP Advances, 2016, 6, .	1.3	16
21	Broadband Dual-Port Intermodulation Generator for Passive Intermodulation Measurements. IEEE Microwave and Wireless Components Letters, 2017, 27, 518-520.	3.2	16
22	Dynamics of Charge Carriers in Silicon Nanowire Photoconductors Revealed by Photo Hall Effect Measurements. ACS Nano, 2018, 12, 3436-3441.	14.6	16
23	Liquid Metal-Based Reconfigurable and Repairable Electronics Designed by a Femtosecond Laser. ACS Applied Electronic Materials, 2020, 2, 2685-2691.	4.3	15
24	Study on the performance of ZnO nanomaterial-based surface acoustic wave ultraviolet detectors. Journal of Micromechanics and Microengineering, 2013, 23, 125008.	2.6	14
25	Secondary electron emission characteristics of TiN coatings produced by RF magnetron sputtering. Journal of Applied Physics, 2018, 124, .	2.5	14
26	An efficient multipaction suppression method in microwave components for space application. Chinese Physics B, 2016, 25, 068401.	1.4	13
27	Secondary electron emission characteristics of nanostructured silver surfaces. Journal of Applied Physics, 2017, 122, .	2.5	13
28	Study of multipactor suppression of microwave components using perforated waveguide technology for space applications. Physics of Plasmas, 2017, 24, .	1.9	13
29	Turn-on field distribution of field-emitting sites in carbon nanotube film: Study with luminescent image. Journal of Vacuum Science & Technology B, 2008, 26, 32.	1.3	11
30	Characterizations of an X-ray detector based on a Zn <sub>2</sub> SiO <sub>4</sub> film. Sensors and Actuators A: Physical, 2015, 236, 98-103.	4.1	11
31	Visible-Blind Photodetector Based on p-i-n Junction 4H-SiC Vertical Nanocone Array. IEEE Transactions on Electron Devices, 2021, 68, 6208-6215.	3.0	11
32	Surface effect investigation on multipactor in microwave components using the EM-PIC method. Physics of Plasmas, 2017, 24, 113505.	1.9	10
33	Vertical Au/ZnO Schottky Barrier Diode Based on High-Resistivity ZnO Film for X-Ray Dose Measurement. IEEE Transactions on Nuclear Science, 2019, 66, 1916-1920.	2.0	10
34	Electrical and optical characterization of Ag <sub>x</sub> O films deposited by RF reactive magnetron sputtering. Thin Solid Films, 2017, 636, 333-338.	1.8	9
35	Positive bias and vacuum chamber wall effect on total electron yield measurement: A re-consideration of the sample current method. Journal of Applied Physics, 2017, 121, 074902.	2.5	9
36	The total secondary electron yield of a conductive random rough surface. Journal of Applied Physics, 2019, 125, .	2.5	9

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37	Monte Carlo simulation of microwave air breakdown in parallel plates considering electron-surface interaction. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	9
38	Investigation on secondary electron emission characteristics of double-layer structures. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	9
39	Low-Voltage and High-Gain Ultraviolet Detector Based on 4H-SiC n-p-n Bipolar Phototransistor. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 2342-2346.	3.0	9
40	High sensitivity X-ray detector based on a 25Åµm-thick ZnO film. <i>Sensors and Actuators A: Physical</i> , 2022, 334, 113310.	4.1	9
41	Luminescence uniformity studies on dendrite bamboo carbon submicron-tube field-emitter arrays. <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 171.	1.3	8
42	Development and field test of a high-temperature heat pump used in crude oil heating. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 392-404.	2.5	8
43	Experimental Study of Electrical Contact Nonlinearity and its Passive Intermodulation Effect. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 424-434.	2.5	8
44	Study on pulsed laser ablation and deposition of ZnO thin films by L-MBE. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 290-301.	0.9	7
45	Enhanced dynamics simulation and threshold analysis of multipaction in the ferrite microwave component. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	7
46	Online passive intermodulation test method for conductive coatings. <i>Electronics Letters</i> , 2017, 53, 165-167.	1.0	7
47	Compact Intermodulation Modulator for Phase Reference in Passive Intermodulation Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 4612-4614.	4.7	7
48	An effective reduction on secondary electron emission yield of gold coated surfaces by laser etching. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 067901.	0.5	7
49	Reflection modulation basis dual-port intermodulation generator for dynamic calibration application in passive intermodulation measurements. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 529-534.	1.4	6
50	Silicon nanowire core-shell PN junction phototransistors by self-assembled monolayer doping. <i>Nanotechnology</i> , 2020, 31, 195201.	2.6	6
51	Evolution of dielectric surface potential induced by electron beam radiation. <i>Chinese Science Bulletin</i> , 2022, 67, 212-220.	0.7	6
52	Analytical Transient Responses and Gain-Bandwidth Products of Low-Dimensional High-Gain Photodetectors. <i>ACS Nano</i> , 2021, 15, 20242-20252.	14.6	6
53	<i>In Situ</i> Test of Thickness and Sheet Resistance of Conductive Nanomaterial Using Microwave Cavity. <i>IEEE Microwave and Wireless Components Letters</i> , 2017, 27, 942-944.	3.2	5
54	A new method for measuring total electron emission yield of insulators. <i>Review of Scientific Instruments</i> , 2020, 91, 095111.	1.3	5

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55	Study of a neutron-resistant p-Si/n-ZnO photodetector with avalanching gain. Sensors and Actuators A: Physical, 2021, 318, 112375.	4.1	5
56	Study of Metal Contact Resistance and its Statistical Correlation with Passive Intermodulation. , 2018, , .		4
57	Theoretical and Experimental Study on Electrical Contact Resistance of Metal Bolt Joints. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1301-1309.	2.5	4
58	Secondary electron yield suppression using millimeter-scale pillar array and explanation of the abnormal yield "energy curve". Chinese Physics B, 2019, 28, 077901.	1.4	4
59	X-Ray Detector Based on p-Si/n-Zn <sub>2</sub> SiO <sub>4</sub> Heterojunction Diode. IEEE Photonics Technology Letters, 2019, 31, 1596-1599.	2.5	4
60	Contactless Measurement of Sheet Resistance of Nanomaterial Using Waveguide Reflection Method. Materials, 2020, 13, 5240.	2.9	4
61	Experimental Investigation of Material and Geometry Effects on Microwave Breakdown of Evanescent-Mode Cavity Resonators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4001-4009.	4.6	4
62	Electron emission properties of silver oxide and its impact on the secondary emission yield of air-exposed silver. Results in Physics, 2022, 33, 105231.	4.1	4
63	Measurement of total electron emission yield of insulators based on self-terminating charge neutralization. Review of Scientific Instruments, 2022, 93, 055103.	1.3	4
64	Statistical Passive Intermodulation Behavior on Coaxial Connector. , 2018, , .		3
65	Coplanar Intermodulation Reference Generator Using Substrate Integrated Waveguide With Integrated Artificial Nonlinear Dipole. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 969-972.	2.2	3
66	Photocharge-Modulated Passive Intermodulation on Ag <sub>2</sub> O/Ag Junction in High-Power Microwave Devices. IEEE Microwave and Wireless Components Letters, 2020, 30, 268-271.	3.2	3
67	Annealing Effect on a (0001)-Oriented ZnO Single-Crystal Bulk-Acoustic-Wave X-Ray Detector. IEEE Transactions on Electron Devices, 2022, 69, 1349-1352.	3.0	3
68	Two-acoustic-cavity interaction mediated by superconducting artificial atoms. Quantum Information Processing, 2020, 19, 1.	2.2	2
69	Characterization of Impact Ionization Coefficient of ZnO Based on a p-Si/i-ZnO/n-AZO Avalanche Photodiode. Micromachines, 2020, 11, 740.	2.9	2
70	Seesaw-type modulation of secondary electron emission characteristics of polytetrafluoroethylene-MgO composite coating. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2022, 40, 044001.	1.2	2
71	Sensitivity simulation of surface acoustic wave ultraviolet detector by multi-physics method. , 2012, , .		1
72	Design of Bidirectional Intermodulation Generator for Passive Intermodulation Calibration. , 2018, , .		1

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73	Tunable Intermodulation Generator for Passive Intermodulation Tester Calibration. , 2018, , .		1
74	Passive Intermodulation Measurement of Radiofrequency Interference Shielding Gasket. , 2019, , .		1
75	Passive Intermodulation of Metallic Contact in Radiation Field. , 2019, , .		1
76	Novel Compact Waveguide Flange Adapter for Passive Intermodulation Measurement Systems. , 2020, , .		1
77	Realization of Deep UV Plasmonic Enhancement to Photo Response through Al Mesh. Materials, 2020, 13, 3252.	2.9	1
78	Simulation studies of interface dynamics of secondary electron yield in perforated media. Physics of Plasmas, 2020, 27, .	1.9	1
79	Comparative Study of Various Microwave Sensors in Determining the Thickness of Dielectric Materials. , 2020, , .		1
80	Lift-Off and Tilt Effect in Microwave Surface Resistance Measurement Using TE <sub>011</sub> Mode Cylindrical Cavity. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	1
81	Modeling of a ZnO single crystal bulk-acoustic-wave X-ray detector. Sensors and Actuators A: Physical, 2022, 343, 113668.	4.1	1
82	Improvement multipactor discharge of microwave components by micro-porous surface. , 2014, , .		0
83	Microwave surface resistance/resistivity measurement using microstrip complementary split ring resonator sensor. , 2018, , .		0
84	Neutron-Irradiation Effects on ZnO Nanostructure. , 2019, , .		0
85	Passive Intermodulation Suppression of PIFA by EGaln as Reconfigurable Normal Temperature Solder. , 2019, , .		0
86	Characterization of Electromagnetic Nonlinearities of RFI/EMI Gasket: A Microstrip Based Approach. , 2019, , .		0
87	Conductivity Extraction Using a 180 GHz Quasi-Optical Resonator for Conductive Thin Film Deposited on Conductive Substrate. Materials, 2020, 13, 5260.	2.9	0
88	Flangeless Waveguide Connection Based on Gap Waveguide Technology. , 2020, , .		0
89	Cancellation method to improve signal to noise ratio of an electrodeless microwave-biased ZnO single crystal x-ray detector. Review of Scientific Instruments, 2022, 93, 015006.	1.3	0