

# 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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h-index

414414

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g-index

89  
all docs

89  
docs citations

89  
times ranked

1232  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of dielectric surface potential induced by electron beam radiation. Chinese Science Bulletin, 2022, 67, 212-220.	0.7	6
2	High sensitivity X-ray detector based on a 25Åµm-thick ZnO film. Sensors and Actuators A: Physical, 2022, 334, 113310.	4.1	9
3	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
4	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
5	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
6	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
7	Measurement of total electron emission yield of insulators based on self-terminating charge neutralization. Review of Scientific Instruments, 2022, 93, 055103.	1.3	4
8	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
9	Modeling of a ZnO single crystal bulk-acoustic-wave X-ray detector. Sensors and Actuators A: Physical, 2022, 343, 113668.	4.1	1
10	Study of a neutron-resistant p+-Si/n-ZnO photodetector with avalanching gain. Sensors and Actuators A: Physical, 2021, 318, 112375.	4.1	5
11	Investigation on secondary electron emission characteristics of double-layer structures. Journal of Applied Physics, 2021, 129, .	2.5	9
12	Low-Voltage and High-Gain Ultraviolet Detector Based on 4H-SiC n-p-n Bipolar Phototransistor. IEEE Transactions on Electron Devices, 2021, 68, 2342-2346.	3.0	9
13	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
14	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
15	Analytical Transient Responses and Gain-Bandwidth Products of Low-Dimensional High-Gain Photodetectors. ACS Nano, 2021, 15, 20242-20252.	14.6	6
16	Experimental Study of Electrical Contact Nonlinearity and its Passive Intermodulation Effect. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 424-434.	2.5	8
17	Empirical Modeling of Contact Intermodulation Effect on Coaxial Connectors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5091-5099.	4.7	20
18	Conductivity Extraction Using a 180 GHz Quasi-Optical Resonator for Conductive Thin Film Deposited on Conductive Substrate. Materials, 2020, 13, 5260.	2.9	0

#	ARTICLE	IF	CITATIONS
19	Contactless Measurement of Sheet Resistance of Nanomaterial Using Waveguide Reflection Method. <i>Materials</i> , 2020, 13, 5240.	2.9	4
20	Monte Carlo simulation of microwave air breakdown in parallel plates considering electron-surface interaction. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	9
21	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
22	Novel Compact Waveguide Flange Adapter for Passive Intermodulation Measurement Systems. , 2020, , .		1
23	Liquid Metal-Based Reconfigurable and Repairable Electronics Designed by a Femtosecond Laser. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2685-2691.	4.3	15
24	Realization of Deep UV Plasmonic Enhancement to Photo Response through Al Mesh. <i>Materials</i> , 2020, 13, 3252.	2.9	1
25	Two-acoustic-cavity interaction mediated by superconducting artificial atoms. <i>Quantum Information Processing</i> , 2020, 19, 1.	2.2	2
26	Flangeless Waveguide Connection Based on Gap Waveguide Technology. , 2020, , .		0
27	Characterization of Impact Ionization Coefficient of ZnO Based on a p-Si/i-ZnO/n-AZO Avalanche Photodiode. <i>Micromachines</i> , 2020, 11, 740.	2.9	2
28	A new method for measuring total electron emission yield of insulators. <i>Review of Scientific Instruments</i> , 2020, 91, 095111.	1.3	5
29	Silicon nanowire core-shell PN junction phototransistors by self-assembled monolayer doping. <i>Nanotechnology</i> , 2020, 31, 195201.	2.6	6
30	Simulation studies of interface dynamics of secondary electron yield in perforated media. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	1
31	Photocharge-Modulated Passive Intermodulation on Ag <sub>2</sub> O/Ag Junction in High-Power Microwave Devices. <i>IEEE Microwave and Wireless Components Letters</i> , 2020, 30, 268-271.	3.2	3
32	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
33	Comparative Study of Various Microwave Sensors in Determining the Thickness of Dielectric Materials. , 2020, , .		1
34	Coplanar Intermodulation Reference Generator Using Substrate Integrated Waveguide With Integrated Artificial Nonlinear Dipole. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2019, 61, 969-972.	2.2	3
35	Theoretical and Experimental Study on Electrical Contact Resistance of Metal Bolt Joints. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1301-1309.	2.5	4
36	Secondary electron yield suppression using millimeter-scale pillar array and explanation of the abnormal yield energy curve*. <i>Chinese Physics B</i> , 2019, 28, 077901.	1.4	4

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37	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
38	Neutron-Irradiation Effects on ZnO Nanostructure. , 2019, , .		0
39	X-Ray Detector Based on p <sup>+</sup> -Si/n-Zn <sub>2</sub> SiO <sub>4</sub> Heterojunction Diode. IEEE Photonics Technology Letters, 2019, 31, 1596-1599.	2.5	4
40	The total secondary electron yield of a conductive random rough surface. Journal of Applied Physics, 2019, 125, .	2.5	9
41	A High-Resistivity ZnO Film-Based Photoconductive X-Ray Detector. IEEE Photonics Technology Letters, 2019, 31, 365-368.	2.5	21
42	Passive Intermodulation Measurement of Radiofrequency Interference Shielding Gasket. , 2019, , .		1
43	Passive Intermodulation of Metallic Contact in Radiation Field. , 2019, , .		1
44	Passive Intermodulation Suppression of PIFA by EGaln as Reconfigurable Normal Temperature Solder. , 2019, , .		0
45	Characterization of Electromagnetic Nonlinearities of RFI/EMI Gasket: A Microstrip Based Approach. , 2019, , .		0
46	Compact Intermodulation Modulator for Phase Reference in Passive Intermodulation Measurements. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4612-4614.	4.7	7
47	An effective reduction on secondary electron emission yield of gold coated surfaces by laser etching. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 067901.	0.5	7
48	Analytic Passive Intermodulation Behavior on the Coaxial Connector Using Monte Carlo Approximation. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1207-1214.	2.2	35
49	Dynamics of Charge Carriers in Silicon Nanowire Photoconductors Revealed by Photo Hall Effect Measurements. ACS Nano, 2018, 12, 3436-3441.	14.6	16
50	Statistical Passive Intermodulation Behavior on Coaxial Connector. , 2018, , .		3
51	Study of Metal Contact Resistance and its Statistical Correlationship with Passive Intermodulation. , 2018, , .		4
52	Design of Bidirectional Intermodulation Generator for Passive Intermodulation Calibration. , 2018, , .		1
53	A Folded Contactless Waveguide Flange for Low Passive-Intermodulation Applications. IEEE Microwave and Wireless Components Letters, 2018, 28, 864-866.	3.2	19
54	Experimental Verification of Multipactor Discharge Dynamics Between Ferrite Dielectric and Metal. IEEE Transactions on Electron Devices, 2018, 65, 4592-4599.	3.0	18

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55	Tunable Intermodulation Generator for Passive Intermodulation Tester Calibration. , 2018, , .		1
56	Microwave surface resistance/resistivity measurement using microstrip complementary split ring resonator sensor. , 2018, , .		0
57	Secondary electron emission characteristics of TiN coatings produced by RF magnetron sputtering. Journal of Applied Physics, 2018, 124, .	2.5	14
58	Development and field test of a high-temperature heat pump used in crude oil heating. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2017, 231, 392-404.	2.5	8
59	Enhanced Performance of a Self-Powered Organic/Inorganic Photodetector by Pyro-Phototronic and Piezo-Phototronic Effects. Advanced Materials, 2017, 29, 1606698.	21.0	157
60	Enhanced dynamics simulation and threshold analysis of multipaction in the ferrite microwave component. Physics of Plasmas, 2017, 24, .	1.9	7
61	Electrical and optical characterization of AgxO films deposited by RF reactive magnetron sputtering. Thin Solid Films, 2017, 636, 333-338.	1.8	9
62	Analytic Passive Intermodulation Model for Flange Connection Based on Metallic Contact Nonlinearity Approximation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2279-2287.	4.6	29
63	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
64	Mechanism of total electron emission yield reduction using a micro-porous surface. Journal of Applied Physics, 2017, 121, .	2.5	28
65	Reconfigurable Passive Intermodulation Behavior on Nickel-Coated Cell Array. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1027-1034.	2.2	24
66	Secondary electron emission characteristics of nanostructured silver surfaces. Journal of Applied Physics, 2017, 122, .	2.5	13
67	Study of multipactor suppression of microwave components using perforated waveguide technology for space applications. Physics of Plasmas, 2017, 24, .	1.9	13
68	Reflection modulation basis dual-port intermodulation generator for dynamic calibration application in passive intermodulation measurements. IET Microwaves, Antennas and Propagation, 2017, 11, 529-534.	1.4	6
69	Surface effect investigation on multipactor in microwave components using the EM-PIC method. Physics of Plasmas, 2017, 24, 113505.	1.9	10
70	Broadband Dual-Port Intermodulation Generator for Passive Intermodulation Measurements. IEEE Microwave and Wireless Components Letters, 2017, 27, 518-520.	3.2	16
71	Novel Programmable Passive Intermodulation Generator Using Nonlinear Rotating Disk. IEEE Microwave and Wireless Components Letters, 2017, 27, 945-947.	3.2	18
72	In Situ Test of Thickness and Sheet Resistance of Conductive Nanomaterial Using Microwave Cavity. IEEE Microwave and Wireless Components Letters, 2017, 27, 942-944.	3.2	5

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73	Online passive intermodulation test method for conductive coatings. Electronics Letters, 2017, 53, 165-167.	1.0	7
74	Nanosecond X-ray detector based on high resistivity ZnO single crystal semiconductor. Applied Physics Letters, 2016, 108, .	3.3	34
75	Thermal evaporated hyperbranched Ag nanostructure as an effective secondary-electron trapping surface coating. AIP Advances, 2016, 6, .	1.3	16
76	Theoretical Study of Triboelectric-Potential Gated/Driven Metal-Oxide-Semiconductor Field-Effect Transistor. ACS Nano, 2016, 10, 4395-4402.	14.6	36
77	Temperature dependence of pyro-phototronic effect on self-powered ZnO/perovskite heterostructured photodetectors. Nano Research, 2016, 9, 3695-3704.	10.4	87
78	An efficient multipaction suppression method in microwave components for space application. Chinese Physics B, 2016, 25, 068401.	1.4	13
79	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
80	Improvement multipactor discharge of microwave components by micro-porous surface. , 2014, , .		0
81	Suppression of secondary electron yield by micro-porous array structure. Journal of Applied Physics, 2013, 113, .	2.5	101
82	Investigation into anomalous total secondary electron yield for micro-porous Ag surface under oblique incidence conditions. Journal of Applied Physics, 2013, 114, .	2.5	37
83	Study on the performance of ZnO nanomaterial-based surface acoustic wave ultraviolet detectors. Journal of Micromechanics and Microengineering, 2013, 23, 125008.	2.6	14
84	Sensitivity simulation of surface acoustic wave ultraviolet detector by multi-physics method. , 2012, , .		1
85	Surface acoustic wave ultraviolet detector based on zinc oxide nanowire sensing layer. Sensors and Actuators A: Physical, 2012, 184, 34-40.	4.1	54
86	Study of the photoconductive ZnO UV detector based on the electrically floated nanowire array. Sensors and Actuators A: Physical, 2012, 181, 6-12.	4.1	77
87	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
88	Luminescence uniformity studies on dendrite bamboo carbon submicron-tube field-emitter arrays. Journal of Vacuum Science & Technology B, 2008, 26, 171.	1.3	8
89	Study on pulsed laser ablation and deposition of ZnO thin films by L-MBE. Science in China Series D: Earth Sciences, 2007, 50, 290-301.	0.9	7