

Jianhong Yang

List of Publications by Year in descending order

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77
papers

1,230
citations

471061

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h-index

414034

32
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77
all docs

77
docs citations

77
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of resistive switching in Cu-doped HfO ₂ thin film for multilevel non-volatile memory applications. Nanotechnology, 2010, 21, 045202.	1.3	262
2	Strong Dzyaloshinskii-Moriya Interaction and Origin of Ferroelectricity in CuOSeO Physical Review Letters, 2012, 109, 107203.	3.9	121
3	Highly Stable Radiation-Hardened Resistive-Switching Memory. IEEE Electron Device Letters, 2010, 31, 1470-1472.	2.2	69
4	Tunable Fano resonances based on microring resonator with feedback coupled waveguide. Optics Express, 2016, 24, 20187.	1.7	58
5	Mode and Polarization-Division Multiplexing Based on Silicon Nitride Loaded Lithium Niobate on Insulator Platform. Laser and Photonics Reviews, 2022, 16, .	4.4	42
6	Experimental demonstration of an optical Feynman gate for reversible logic operation using silicon micro-ring resonators. Nanophotonics, 2018, 7, 333-337.	2.9	35
7	Ultra-compact dual-polarization silicon mode-order converter. Optics Letters, 2019, 44, 4179.	1.7	33
8	Dry electrode for the measurement of biopotential signals. Science China Information Sciences, 2011, 54, 2435-2442.	2.7	30
9	Improving the electrical performance of resistive switching memory using doping technology. Science Bulletin, 2012, 57, 1235-1240.	1.7	29
10	On-chip reconfigurable and scalable optical mode multiplexer/demultiplexer based on three-waveguide-coupling structure. Optics Express, 2018, 26, 22366.	1.7	29
11	PDMS-Assisted Microfiber M-Z Interferometer With a Knot Resonator for Temperature Sensing. IEEE Photonics Technology Letters, 2019, 31, 337-340.	1.3	26
12	Single-step etched grating couplers for silicon nitride loaded lithium niobate on insulator platform. APL Photonics, 2021, 6, 086108.	3.0	24
13	Strong single-ion anisotropy and anisotropic interactions of magnetic adatoms induced by topological surface states. Physical Review B, 2012, 85, .	1.1	22
14	Reconfigurable On-Chip Mode Exchange for Mode-Division Multiplexing Optical Networks. Journal of Lightwave Technology, 2019, 37, 1008-1013.	2.7	22
15	A novel Cu_xSi_yO resistive memory in logic technology with excellent data retention and resistance distribution for embedded applications. , 2010, , .		21
16	Band alignment of two-dimensional h-BN/MoS ₂ van der Waals heterojunction measured by X-ray photoelectron spectroscopy. Journal of Alloys and Compounds, 2020, 834, 155108.	2.8	20
17	Strain modulation of electronic and optical properties of monolayer MoSi ₂ N ₄ . Physica E: Low-Dimensional Systems and Nanostructures, 2022, 135, 114964.	1.3	20
18	Experimental demonstration of a reconfigurable electro-optic directed logic circuit using cascaded carrier-injection micro-ring resonators. Scientific Reports, 2017, 7, 6410.	1.6	18

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19	Integrated Subwavelength Gratings on a Lithium Niobate on Insulator Platform for Mode and Polarization Manipulation. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	16
20	Independently tunable double Fano resonances based on waveguide-coupled cavities. <i>Optics Letters</i> , 2019, 44, 3154.	1.7	15
21	Reconfigurable Electro-optic Logic Circuits Using Microring Resonator-Based Optical Switch Array. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	1.0	14
22	Tuning the mechanical and electronic properties and carrier mobility of phosphorene <i>via</i> family atom doping: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14902-14909.	2.7	14
23	A Gradient-Oriented Binary Search Method for Photonic Device Design. <i>Journal of Lightwave Technology</i> , 2021, 39, 2407-2412.	2.7	14
24	On-chip switchable and reconfigurable optical mode exchange device using cascaded three-waveguide-coupling switches. <i>Optics Express</i> , 2020, 28, 9552.	1.7	13
25	Electro-optic directed XOR logic circuits based on parallel-cascaded micro-ring resonators. <i>Optics Express</i> , 2015, 23, 26342.	1.7	12
26	Graphene-assisted all-optical tunable Mach-Zehnder interferometer based on microfiber. <i>Optics Communications</i> , 2018, 428, 77-83.	1.0	12
27	Ultra-compact reflective mode converter based on a silicon subwavelength structure. <i>Applied Optics</i> , 2020, 59, 2754.	0.9	12
28	Tunable Fano resonance in mutually coupled micro-ring resonators. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	11
29	On-chip optical parity checker using silicon photonic integrated circuits. <i>Nanophotonics</i> , 2018, 7, 1939-1948.	2.9	11
30	Broadband Nonvolatile Tunable Mode-Order Converter Based on Silicon and Optical Phase Change Materials Hybrid Meta-Structure. <i>Journal of Lightwave Technology</i> , 2020, 38, 1874-1879.	2.7	11
31	Ultra-compact switchable mode converter based on silicon and optical phase change material hybrid metastructure. <i>Optics Communications</i> , 2020, 473, 125889.	1.0	11
32	Experimental realization of an optical digital comparator using silicon microring resonators. <i>Nanophotonics</i> , 2018, 7, 669-675.	2.9	10
33	Multi-Channel Parallel Silicon Mode-Order Converter for Multimode On-Chip Optical Switching. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-6.	1.9	10
34	High sensitivity temperature sensor based on a PDMS-assisted bow-shaped fiber structure. <i>Optics Communications</i> , 2021, 481, 126536.	1.0	10
35	Analysis of dark current dependent upon threading dislocations in Ge/Si heterojunction photodetectors. <i>Microelectronics International</i> , 2012, 29, 136-140.	0.4	9
36	Experimental realization of a CMOS-compatible optical directed priority encoder using cascaded micro-ring resonators. <i>Nanophotonics</i> , 2018, 7, 727-733.	2.9	8

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37	Determination of band alignment in two-dimensional h-BN/WS ₂ van der waals heterojunction by X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157301.	2.8	8
38	A novel buried-gate static induction transistor with diffused source region. <i>Semiconductor Science and Technology</i> , 2004, 19, 152-156.	1.0	7
39	Simulation and Demonstration of Directed XOR/XNOR Logic Gates Using Two Cascaded Microring Resonators. <i>IEEE Photonics Journal</i> , 2016, 8, 1-11.	1.0	7
40	Mode-Oriented Permutation Cipher Encryption and Passive Signal Switching Based on Multiobjective Optimized Silicon Subwavelength Metastructures. <i>ACS Photonics</i> , 2020, 7, 2163-2172.	3.2	7
41	Influence of AlGa _N back-barrier on irradiation tolerance of AlGa _N /Al _N /Ga _N HEMTs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 410, 127527.	0.9	7
42	Ge-on-insulator wafer with ultralow defect density fabricated by direct condensation of SiGe-on-insulator structure. <i>Applied Surface Science</i> , 2015, 356, 1052-1057.	3.1	6
43	Demonstration of an optical directed half-subtractor using integrated silicon photonic circuits. <i>Applied Optics</i> , 2018, 57, 2564.	0.9	6
44	Dipole-regulated bandgap and high electron mobility for bilayer Janus MoSiGeN ₄ . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
45	An Improved Helical Resonator Design for Rubidium Atomic Frequency Standards. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 1678-1685.	2.4	5
46	High sensitivity biosensors based on germanium nanowires fabricated by Ge condensation technique. <i>Materials Letters</i> , 2016, 172, 142-145.	1.3	5
47	Properties of monolayer black phosphorus affected by uniaxial strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113834.	1.3	5
48	Valence band offset of ReS ₂ /BN heterojunction measured by X-ray photoelectron spectroscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 392, 127142.	0.9	5
49	Ultraviolet-electrical erasing response characteristics of Ag@SiO ₂ core-shell functional floating gate organic memory. <i>Organic Electronics</i> , 2021, 93, 106149.	1.4	5
50	Two-dimensional electron gas (2DEG) mobility affected by the in mole fraction fluctuation in In _x Al _{1-x} N/GaN heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 207-210.	1.3	4
51	A theory study of the multiplication characteristics of InP/InGaAs avalanche photodiodes with double multiplication layers and double charge layers. <i>Optics Communications</i> , 2016, 374, 114-118.	1.0	4
52	Modeling a novel InP/InGaAs avalanche photodiode structure: Reducing the excess noise factor. <i>Optics Communications</i> , 2019, 435, 374-377.	1.0	4
53	Integrated non-blocking optical router harnessing wavelength- and mode-selective property for photonic networks-on-chip. <i>Optics Express</i> , 2021, 29, 1251.	1.7	4
54	Demonstration of various optical directed logic operations by using an integrated photonic circuit. <i>Optics Letters</i> , 2021, 46, 2457.	1.7	4

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55	On-Chip Non-Blocking Optical Mode Exchanger for Mode-Division Multiplexing Interconnection Networks. Journal of Lightwave Technology, 2021, 39, 6563-6571.	2.7	4
56	All-Optical Tunable Whispering Gallery Modes in a Polymer Bottle Micro-Resonator. IEEE Photonics Technology Letters, 2021, 33, 97-100.	1.3	4
57	Study on Effects of Different Metallic Vane-Loaded Helix Slow-Wave Structures in Traveling-Wave Tubes. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 611-621.	1.2	3
58	The design and implementation of wireless temperature and humidity control system based on nRF905. , 2015, , .		3
59	Demonstration of a Silicon Photonic Circuit for Half-Add Operations Using Cascaded Microring Resonators. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	3
60	Organic Field-Effect Transistor Memory Device Based on an Integrated Carbon Quantum Dots/Polyvinyl Pyrrolidone Hybrid Nanolayer. Electronics (Switzerland), 2020, 9, 753.	1.8	3
61	On-chip scalable mode-selective converter based on asymmetrical micro-racetrack resonators. Nanophotonics, 2020, 9, 1447-1455.	2.9	3
62	Analysis of Improved 2D Electron Gas Mobility in InAlN/AlN/InGaN High-Electron-Mobility Transistors with GaN Interlayer. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	3
63	The same band alignment of two hybrid 2D/3D vertical heterojunctions formed by combining monolayer MoS ₂ with semi-polar (11 $\bar{1}$ 2) GaN and c-plane (0001) GaN. Applied Surface Science, 2022, 599, 153965.	3.1	3
64	An analytical model for the saturation characteristics of bipolar-mode static induction transistors. Solid-State Electronics, 1999, 43, 823-827.	0.8	2
65	Demonstration of a Microfiber-Based Add-Drop Filter Using One Tapered Fiber. IEEE Photonics Journal, 2018, 10, 1-6.	1.0	2
66	Potential barrier height dependence on biased voltages of static induction thyristors. , 2012, , .		1
67	Theoretical studies of the capacitance-voltage characteristics of metal-ferroelectric-GaN structures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2012, 25, 96-101.	1.2	1
68	Ultra-Compact Sb ₂ S ₃ -Silicon Hybrid Integrated Arbitrarily Cascaded Tunable Mode Converter. IEEE Photonics Journal, 2022, 14, 1-7.	1.0	1
69	Ultra-broadband polarization beam splitter with tunable transmissions based on silicon-Ge	1.0	1
70	Electrically-induced dipole domain in the junction-barrier structure under the high-level injection condition. Semiconductor Science and Technology, 2003, 18, L31-L34.	1.0	0
71	Design and numerical simulation of a humidity sensor based on CMOS fabrication technology. Physics Procedia, 2011, 18, 31-39.	1.2	0
72	Transfer characteristics in a GaN MFSFET: comparison with a conventional GaN MOSFET. International Journal of Electronics, 2012, 99, 987-993.	0.9	0

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73	Controllable decay in an optical waveguide system. AIP Advances, 2016, 6, 095212.	0.6	0
74	p-n junction theory in view of excess majority carriers. Europhysics Letters, 2017, 120, 28004.	0.7	0
75	On-chip Reconfigurable Mode Converter Compatible with WDM Using Parallel Micro-ring Resonators. , 2019, , .		0
76	Theoretical Study on InAlAs/InGaAs Single-Photon Avalanche Detectors with Self-Feedback. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000053.	0.8	0
77	Analytical model for the potential barrier height in depleted channel formed by P-N junctions. Chinese Science Bulletin, 2017, 62, 3392-3399.	0.4	0