

Jianhong Yang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

802
citations

12
h-index

26
g-index

77
ext. papers

1,006
ext. citations

3.3
avg, IF

3.84
L-index

#	Paper	IF	Citations
73	Strain modulation of electronic and optical properties of monolayer MoSi ₂ N ₄ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 135, 114964	3	6
72	Ultra-compact Sb ₂ S ₃ -Silicon Hybrid Integrated Arbitrarily Cascaded Tunable Mode Converter. <i>IEEE Photonics Journal</i> , 2022 , 1-1	1.8	0
71	Mode and Polarization-Division Multiplexing Based on Silicon Nitride Loaded Lithium Niobate on Insulator Platform. <i>Laser and Photonics Reviews</i> , 2022 , 16, 2100529	8.3	12
70	Dipole-regulated bandgap and high electron mobility for bilayer Janus MoSiGeN ₄ . <i>Applied Physics Letters</i> , 2022 , 120, 213101	3.4	0
69	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	2.3	3
68	A Gradient-Oriented Binary Search Method for Photonic Device Design. <i>Journal of Lightwave Technology</i> , 2021 , 39, 2407-2412	4	3
67	Demonstration of various optical directed logic operations by using an integrated photonic circuit. <i>Optics Letters</i> , 2021 , 46, 2457-2460	3	1
66	Ultraviolet-electrical erasing response characteristics of Ag@SiO ₂ core-shell functional floating gate organic memory. <i>Organic Electronics</i> , 2021 , 93, 106149	3.5	3
65	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	5.7	1
64	High sensitivity temperature sensor based on a PDMS-assisted bow-shaped fiber structure. <i>Optics Communications</i> , 2021 , 481, 126536	2	5
63	Integrated non-blocking optical router harnessing wavelength- and mode-selective property for photonic networks-on-chip. <i>Optics Express</i> , 2021 , 29, 1251-1264	3.3	1
62	Single-step etched grating couplers for silicon nitride loaded lithium niobate on insulator platform. <i>APL Photonics</i> , 2021 , 6, 086108	5.2	5
61	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	2.3	4
60	On-Chip Non-Blocking Optical Mode Exchanger for Mode-Division Multiplexing Interconnection Networks. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	
59	Organic Field-Effect Transistor Memory Device Based on an Integrated Carbon Quantum Dots/Polyvinyl Pyrrolidone Hybrid Nanolayer. <i>Electronics (Switzerland)</i> , 2020 , 9, 753	2.6	1
58	Theoretical Study on InAlAs/InGaAs Single-Photon Avalanche Detectors with Self-Feedback. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000053	1.6	
57	Mode-Oriented Permutation Cipher Encryption and Passive Signal Switching Based on Multiobjective Optimized Silicon Subwavelength Metastructures. <i>ACS Photonics</i> , 2020 , 7, 2163-2172	6.3	4

56	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	4	3
55	Ultra-compact reflective mode converter based on a silicon subwavelength structure. <i>Applied Optics</i> , 2020 , 59, 2754-2758	1.7	7
54	On-chip switchable and reconfigurable optical mode exchange device using cascaded three-waveguide-coupling switches. <i>Optics Express</i> , 2020 , 28, 9552-9562	3.3	7
53	All-Optical Tunable Whispering Gallery Modes in a Polymer Bottle Micro-Resonator. <i>IEEE Photonics Technology Letters</i> , 2020 , 1-1	2.2	2
52	On-chip scalable mode-selective converter based on asymmetrical micro-racetrack resonators. <i>Nanophotonics</i> , 2020 , 9, 1447-1455	6.3	1
51	Properties of monolayer black phosphorus affected by uniaxial strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113834	3	1
50	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	3.8	5
49	Tuning the mechanical and electronic properties and carrier mobility of phosphorene via family atom doping: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14902-14909	7.1	6
48	Band alignment of two-dimensional h-BN/MoS ₂ van der Waals heterojunction measured by X-ray photoelectron spectroscopy. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155108	5.7	12
47	Ultra-compact switchable mode converter based on silicon and optical phase change material hybrid metastructure. <i>Optics Communications</i> , 2020 , 473, 125889	2	3
46	PDMS-Assisted Microfiber M-Z Interferometer With a Knot Resonator for Temperature Sensing. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 337-340	2.2	21
45	Independently tunable double Fano resonances based on waveguide-coupled cavities. <i>Optics Letters</i> , 2019 , 44, 3154-3157	3	8
44	Ultra-compact dual-polarization silicon mode-order converter. <i>Optics Letters</i> , 2019 , 44, 4179-4182	3	18
43	Modeling a novel InP/InGaAs avalanche photodiode structure: Reducing the excess noise factor. <i>Optics Communications</i> , 2019 , 435, 374-377	2	3
42	Reconfigurable On-Chip Mode Exchange for Mode-Division Multiplexing Optical Networks. <i>Journal of Lightwave Technology</i> , 2019 , 37, 1008-1013	4	12
41	Demonstration of a Microfiber-Based Add/Drop Filter Using One Tapered Fiber. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-6	1.8	1
40	Experimental demonstration of an optical Feynman gate for reversible logic operation using silicon micro-ring resonators. <i>Nanophotonics</i> , 2018 , 7, 333-337	6.3	18
39	Graphene-assisted all-optical tunable Mach-Zehnder interferometer based on microfiber. <i>Optics Communications</i> , 2018 , 428, 77-83	2	7

38	Demonstration of an optical directed half-subtractor using integrated silicon photonic circuits. <i>Applied Optics</i> , 2018 , 57, 2564-2569	1.7	3
37	On-chip reconfigurable and scalable optical mode multiplexer/demultiplexer based on three-waveguide-coupling structure. <i>Optics Express</i> , 2018 , 26, 22366-22377	3.3	18
36	On-chip optical parity checker using silicon photonic integrated circuits. <i>Nanophotonics</i> , 2018 , 7, 1939-1948	1.8	8
35	Experimental realization of a CMOS-compatible optical directed priority encoder using cascaded micro-ring resonators. <i>Nanophotonics</i> , 2018 , 7, 727-733	6.3	5
34	Experimental realization of an optical digital comparator using silicon microring resonators. <i>Nanophotonics</i> , 2018 , 7, 669-675	6.3	5
33	Demonstration of a Silicon Photonic Circuit for Half-Add Operations Using Cascaded Microring Resonators. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-9	1.8	1
32	Tunable Fano resonance in mutually coupled micro-ring resonators. <i>Applied Physics Letters</i> , 2017 , 111, 091901	3.4	10
31	Experimental demonstration of a reconfigurable electro-optic directed logic circuit using cascaded carrier-injection micro-ring resonators. <i>Scientific Reports</i> , 2017 , 7, 6410	4.9	12
30	p-n junction theory in view of excess majority carriers. <i>Europhysics Letters</i> , 2017 , 120, 28004	1.6	1
29	Tunable Fano resonances based on microring resonator with feedback coupled waveguide. <i>Optics Express</i> , 2016 , 24, 20187-95	3.3	43
28	Simulation and Demonstration of Directed XOR/XNOR Logic Gates Using Two Cascaded Microring Resonators. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-11	1.8	3
27	Reconfigurable Electro-optic Logic Circuits Using Microring Resonator-Based Optical Switch Array. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-8	1.8	7
26	High sensitivity biosensors based on germanium nanowires fabricated by Ge condensation technique. <i>Materials Letters</i> , 2016 , 172, 142-145	3.3	5
25	Controllable decay in an optical waveguide system. <i>AIP Advances</i> , 2016 , 6, 095212	1.5	
24	Two-dimensional electron gas (2DEG) mobility affected by the in mole fraction fluctuation in InxAl1-xN/GaN heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 207-210	3.0	2
23	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	2	4
22	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	6.7	3
21	Electro-optic directed XOR logic circuits based on parallel-cascaded micro-ring resonators. <i>Optics Express</i> , 2015 , 23, 26342-55	3.3	10

20	The design and implementation of wireless temperature and humidity control system based on nRF905 2015 ,		3
19	Theoretical studies of the capacitance-voltage characteristics of metal-ferroelectric-GaN structures. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 96-101	1	1
18	Potential barrier height dependence on biased voltages of static induction thyristors 2012 ,		1
17	Strong single-ion anisotropy and anisotropic interactions of magnetic adatoms induced by topological surface states. <i>Physical Review B</i> , 2012 , 85,	3.3	19
16	Strong Dzyaloshinskii-Moriya interaction and origin of ferroelectricity in Cu ₂ OSeO ₃ . <i>Physical Review Letters</i> , 2012 , 109, 107203	7.4	95
15	Transfer characteristics in a GaN MFSFET: comparison with a conventional GaN MOSFET. <i>International Journal of Electronics</i> , 2012 , 99, 987-993	1.2	
14	Improving the electrical performance of resistive switching memory using doping technology. <i>Science Bulletin</i> , 2012 , 57, 1235-1240		22
13	Analysis of dark current dependent upon threading dislocations in Ge/Si heterojunction photodetectors. <i>Microelectronics International</i> , 2012 , 29, 136-140	0.8	5
12	Design and numerical simulation of a humidity sensor based on CMOS fabrication technology. <i>Physics Procedia</i> , 2011 , 18, 31-39		
11	Dry electrode for the measurement of biopotential signals. <i>Science China Information Sciences</i> , 2011 , 54, 2435-2442	3.4	25
10	Investigation of resistive switching in Cu-doped HfO ₂ thin film for multilevel non-volatile memory applications. <i>Nanotechnology</i> , 2010 , 21, 045202	3.4	228
9	Highly Stable Radiation-Hardened Resistive-Switching Memory. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1470-1472	4.4	49
8	A novel Cu _x Si _y O resistive memory in logic technology with excellent data retention and resistance distribution for embedded applications 2010 ,		12
7	An Improved Helical Resonator Design for Rubidium Atomic Frequency Standards. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 1678-1685	5.2	4
6	Study on Effects of Different Metallic Vane-Loaded Helix Slow-Wave Structures in Traveling-Wave Tubes. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009 , 30, 611-621	2.2	2
5	A novel buried-gate static induction transistor with diffused source region. <i>Semiconductor Science and Technology</i> , 2004 , 19, 152-156	1.8	7
4	Electrically-induced dipole domain in the junction-barrier structure under the high-level injection condition. <i>Semiconductor Science and Technology</i> , 2003 , 18, L31-L34	1.8	
3	An analytical model for the saturation characteristics of bipolar-mode static induction transistors. <i>Solid-State Electronics</i> , 1999 , 43, 823-827	1.7	2

2	Analysis of Improved 2D Electron Gas Mobility in InAlN/AlN/InGaN High-Electron-Mobility Transistors with GaN Interlayer. <i>Physica Status Solidi - Rapid Research Letters</i> ,2100573	2.5	0
1	Integrated Subwavelength Gratings on a Lithium Niobate on Insulator Platform for Mode and Polarization Manipulation. <i>Laser and Photonics Reviews</i> ,2200130	8.3	3