Yu Zhang

List of Publications by Year
in descending order

34 papers	574 citations	686830 13 h-index	996533 15 g-index
34 all docs	34 docs citations	34 times ranked	725 citing authors

#	Article	IF	Citations
1	Multi-FSR Silicon Photonic Flex-LIONS Module for Bandwidth-Reconfigurable All-to-All Optical Interconnects. Journal of Lightwave Technology, 2020, 38, 3200-3208.	2.7	20
2	Scalable 3D Silicon Photonic Electronic Integrated Circuits and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	23
3	Silicon Photonic Flex-LIONS for Bandwidth-Reconfigurable Optical Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-10.	1.9	22
4	Flex-LIONS: A Silicon Photonic Bandwidth-Reconfigurable Optical Switch Fabric. IEICE Transactions on Communications, 2020, E103.B, 1190-1198.	0.4	3
5	Foundry-Enabled Scalable All-to-All Optical Interconnects Using Silicon Nitride Arrayed Waveguide Router Interposers and Silicon Photonic Transceivers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9.	1.9	20
6	Solid-State MWIR Beam Steering Using Optical Phased Array on Germanium-Silicon Photonic Platform. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	10
7	Sub-wavelength-pitch silicon-photonic optical phased array for large field-of-regard coherent optical beam steering. Optics Express, 2019, 27, 1929.	1.7	104
8	Multi-FSR On-Chip Optical Interconnects Using Silicon Nitride AWGR. , 2019, , .		5
9	MWIR Solid-State Optical Phased Array Beam Steering using Germanium-Silicon Photonic Platform. , 2019, , .		0
10	High-Density Wafer-Scale 3-D Silicon-Photonic Integrated Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-10.	1.9	25
11	Sub-Wavelength-Pitch Silicon-Phatonic Optical Phased Array for Large Field-AF-Regard Coherent Optical Beam Steering. , 2018, , .		1
12	Low-Loss Wafer-Scale Silicon Photonic Interposer Utilizing Inverse-Taper Coupler. , 2018, , .		1
13	Verilog-A Compact Modeling and Simulation of AWGR based All-to-All Optical Interconnects. , 2018, , .		4
14	Scalable AWGR-based All-to-All Optical Interconnects with 2.5D/3D Integrated Optical Interposers. , 2018, , .		6
15	Integrated Silicon Photonic Microresonators: Emerging Technologies. IEEE Journal of Selected Topics in Quantum Electronics, 2018, , 1-1.	1.9	33
16	Low-loss prism-waveguide optical coupling for ultrahigh-Q low-index monolithic resonators. Optica, 2018, 5, 219.	4.8	33
17	Design Principles for Heterogeneously Integrated III-V-on-Silicon Microdisk Unidirectional Singlemode Lasers. , 2018, , .		1
18	3D integrated silicon photonic unit cell with vertical U-turn for scalable optical phase array. , 2018, , .		2

#	Article	IF	Citations
19	Sub-wavelength Spacing Optical Phase Array Nanoantenna Emitter with Vertical Silicon Photonic Vias. , 2018, , .		4
20	Arbitrary vertical low-loss waveguides in deposited oxide of optical interposers for low-loss 3D photonic packaging. , 2018, , .		0
21	Heterogeneously integrated III-V-on-silicon microspiral disk lasers for optical interconnects. , 2017, , .		2
22	Thermal shunts for heterogeneously integrated III-V-on-silicon microspiral disk lasers. , 2017, , .		1
23	Uniform emission, constant wavevector silicon grating surface emitter for beam steering with ultra-sharp instantaneous field-of-view. Optics Express, 2017, 25, 19655.	1.7	37
24	Low-loss On-chip Prism-Waveguide Coupler to High-Q Micro-resonator and Optical Frequency Comb Generation. , 2017, , .		2
25	Silicon and hybrid silicon photonic devices for intra-datacenter applications: state of the art and perspectives [Invited]. Photonics Research, 2015, 3, B10.	3.4	87
26	Waveguide-integrated Unidirectional-Emission Microspiral Lasers for Optical Interconnects. , 2015, , .		0
27	Hybrid silicon unidirectional-emission microspiral disk lasers for optical interconnect applications. , 2015, , .		2
28	Direct-modulated waveguide-coupled microspiral disk lasers with spatially selective injection for on-chip optical interconnects. Optics Express, 2014, 22, 824.	1.7	46
29	Towards Adaptively Tuned Silicon Microring Resonators for Optical Networks-on-Chip Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 136-149.	1.9	51
30	Directional-Emission III-V-on-Silicon Microspiral and Double-Notch Microdisk Lasers for Optical Interconnects. , 2014, , .		1
31	Sub-bandgap linear-absorption-based photodetectors in avalanche mode in PN-diode-integrated silicon microring resonators. Optics Letters, 2013, 38, 5200.	1.7	28
32	AlGaInAs/InP Waveguide-Coupled Unidirectional-Emission Microspiral Lasers for On-Chip Optical Interconnects. , 2013, , .		0
33	Silicon and Hybrid Silicon Photodetectors for Photonic Integrated Circuits. , 2012, , .		0
34	Silicon microresonators for on-chip optical interconnects and optofluidics. , 2011, , .		0