

Ran Ding

List of Publications by Year in descending order

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66
papers

1,999
citations

304743
22
h-index

395702
33
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all docs

66
docs citations

66
times ranked

1933
citing authors

#	ARTICLE	IF	CITATIONS
1	Low power 50 Gb/s silicon traveling wave Mach-Zehnder modulator near 1300 nm. <i>Optics Express</i> , 2013, 21, 30350.	3.4	246
2	Ultralow drive voltage silicon traveling-wave modulator. <i>Optics Express</i> , 2012, 20, 12014.	3.4	204
3	Ultralow loss single layer submicron silicon waveguide crossing for SOI optical interconnect. <i>Optics Express</i> , 2013, 21, 29374.	3.4	190
4	Demonstration of a low V _{th} modulator with GHz bandwidth based on electro-optic polymer-clad silicon slot waveguides. <i>Optics Express</i> , 2010, 18, 15618.	3.4	134
5	Silicon-polymer hybrid slot waveguide ring-resonator modulator. <i>Optics Express</i> , 2011, 19, 3952.	3.4	114
6	Silicon Photonics: The Next Fabless Semiconductor Industry. <i>IEEE Solid-State Circuits Magazine</i> , 2013, 5, 48-58.	0.4	105
7	The Road to Affordable, Large-Scale Silicon Photonics. <i>Optics and Photonics News</i> , 2013, 24, 32.	0.5	80
8	A 25 Gb/s, 4.4 V-Swing, AC-Coupled Ring Modulator-Based WDM Transmitter with Wavelength Stabilization in 65 nm CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2015, 50, 3145-3159.	5.4	80
9	Design and characterization of a 30-GHz bandwidth low-power silicon traveling-wave modulator. <i>Optics Communications</i> , 2014, 321, 124-133.	2.1	69
10	Low-loss strip-loaded slot waveguides in Silicon-on-Insulator. <i>Optics Express</i> , 2010, 18, 25061.	3.4	64
11	High-Speed Silicon Modulator With Slow-Wave Electrodes and Fully Independent Differential Drive. <i>Journal of Lightwave Technology</i> , 2014, 32, 2240-2247.	4.6	63
12	Sub-Volt Silicon-Organic Electro-optic Modulator With 500 MHz Bandwidth. <i>Journal of Lightwave Technology</i> , 2011, 29, 1112-1117.	4.6	42
13	Compact and low loss 90° optical hybrid on a silicon-on-insulator platform. <i>Optics Express</i> , 2017, 25, 28957.	3.4	42
14	Photolithographically fabricated low-loss asymmetric silicon slot waveguides. <i>Optics Express</i> , 2011, 19, 10950.	3.4	41
15	Low-loss asymmetric strip-loaded slot waveguides in silicon-on-insulator. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	40
16	Bandwidth enhancement of waveguide-coupled photodetectors with inductive gain peaking. <i>Optics Express</i> , 2012, 20, 7101.	3.4	36
17	Broadband on-chip optical non-reciprocity using phase modulators. <i>Optics Express</i> , 2013, 21, 14500.	3.4	34
18	A Compact Low-Power 320-Gb/s WDM Transmitter Based on Silicon Microrings. <i>IEEE Photonics Journal</i> , 2014, 6, 1-8.	2.0	32

#	ARTICLE	IF	CITATIONS
19	Single Microring-Based <math notation="LaTeX">2</math> Silicon Photonic Crossbar Switches. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1981-1984.	2.5	31
20	Progress in silicon platforms for integrated optics. <i>Nanophotonics</i> , 2014, 3, 205-214.	6.0	30
21	Ultra-compact 320 Gb/s and 160 Gb/s WDM transmitters based on silicon microrings. , 2014, , .		23
22	Symmetrical polarization splitter/rotator design and application in a polarization insensitive WDM receiver. <i>Optics Express</i> , 2015, 23, 16052.	3.4	23
23	Silicon microring modulator for 40 Gb/s NRZ-OOK metro networks in O-band. <i>Optics Express</i> , 2014, 22, 28284.	3.4	22
24	Experimental demonstration of broadband Lorentz non-reciprocity in an integrable photonic architecture based on Mach-Zehnder modulators. <i>Optics Express</i> , 2014, 22, 17409.	3.4	22
25	Silicon Mod-MUX-Ring transmitter with 4 channels at 40 Gb/s. <i>Optics Express</i> , 2014, 22, 16431.	3.4	17
26	A Low-Power Hybrid-Integrated 40-Gb/s Optical Receiver in Silicon. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 589-595.	4.6	15
27	A CMOS-compatible silicon photonic platform for high-speed integrated opto-electronics. <i>Proceedings of SPIE</i> , 2013, , .	0.8	14
28	A 10-Gb/s Silicon Microring Resonator-Based BPSK Link. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1805-1808.	2.5	13
29	A Silicon Platform for High-Speed Photonics Systems. , 2012, , .		12
30	A 30 GHz silicon photonic platform. , 2013, , .		12
31	A 30 GHz silicon photonic platform. , 2013, , .		12
32	A Reconfigurable and Redundant Optically-Connected Memory System using a Silicon Photonic Switch. , 2014, , .		11
33	Activation of C-H, N-H, and O-H Bonds via Proton-Coupled Electron Transfer to a Mn(III) Complex of Redox-Noninnocent Octaazacyclotetradecadiene, a Catenated-Nitrogen Macroyclic Ligand. <i>Journal of the American Chemical Society</i> , 2019, 141, 5699-5709.	13.7	11
34	Silicon Parallel Single Mode 48 Å– 50 Gb/s Modulator and Photodetector Array. <i>Journal of Lightwave Technology</i> , 2014, 32, 4370-4377.	4.6	10
35	22.6 Å 25Gb/s 4.4V-swing AC-coupled Si-photonic microring transmitter with 2-tap asymmetric FFE and dynamic thermal tuning in 65nm CMOS. , 2015, , .		10
36	Programmable Wavelength Locking and Routing in a Silicon-Photonic Interconnection Network Implementation. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
37	Reuse Distance Based Circuit Replacement in Silicon Photonic Interconnection Networks for HPC. , 2014, , .	8	
38	Power-efficient low-noise 86-GHz broadband amplifier in 130-nm SiGe BiCMOS. Electronics Letters, 2014, 50, 741-743.	1.0	8
39	A 40-GHz bandwidth transimpedance amplifier with adjustable gain-peaking in 65-nm CMOS. , 2014, , .	7	
40	High-Speed BPSK Modulation in Silicon. IEEE Photonics Technology Letters, 2015, 27, 1329-1332.	2.5	7
41	Silicon multi-project wafer platforms for optoelectronic system integration. , 2012, , .	6	
42	A low-power 40 Gb/s optical receiver in silicon. , 2015, , .	6	
43	Reimagining the $e^{g_{\text{sub}}}$ Electronic State in Oxygen Evolution Catalysis: Oxidation-State-Modulated Superlattices as a New Type of Heterostructure for Maximizing Catalysis. Advanced Energy Materials, 2021, 11, 2101636.	19.5	6
44	Complexity Scaling in Silicon Photonics. , 2017, , .	6	
45	A 92 mW, 20 dB gain, broadband lumped SiGe amplifier with bandwidth exceeding 67 GHz. , 2013, , .	5	
46	A high-speed silicon photonics platform. , 2011, , .	4	
47	Photolithographic fabrication of slot waveguides. Proceedings of SPIE, 2011, , .	0.8	3
48	Shared shuttles for integrated silicon optoelectronics. , 2012, , .	3	
49	Scalability of silicon photonic enabled optically connected memory. , 2014, , .	3	
50	100-Gb/s NRZ optical transceiver analog front-end in 130-nm SiGe BiCMOS. , 2014, , .	3	
51	50 Gb/s Silicon Traveling Wave Mach-Zehnder Modulator near 1300 nm. , 2014, , .	2	
52	Silicon microring based modulator and filter for high speed transmitters at 1310 nm. , 2014, , .	2	
53	A low V _{inf} π</inf>L modulator with GHz bandwidth based on an electro-optic polymer-clad silicon slot waveguide. , 2010, , .	1	
54	Towards a low-loss, ultra-low drive voltage silicon-polymer hybrid electro-optic modulator. , 2011, , .	1	

#	ARTICLE	IF	CITATIONS
55	Asymmetric strip-loaded slot waveguides and its applications in silicon-polymer hybrid electro-optic modulators. , 2011, , .	1	
56	A 30 GHz silicon photonic platform: Multi-project wafer shuttles for next-generation optical systems. , 2013, , .	1	
57	30GHz silicon platform for photonics system. , 2013, , .	1	
58	High-speed silicon modulators with slow-wave electrodes. , 2014, , .	1	
59	Polarization-insensitive 40Gb/s 4-WDM channels receiver on SOI platform. , 2015, , .	1	
60	Design of high-speed ultra-low V<inf>π</inf> slot waveguide modulators. , 2010, , .	0	
61	A 25 Gb/s 400 fJ/bit silicon traveling-wave modulator. , 2012, , .	0	
62	Systems and devices in a 30 GHz silicon-on-insulator platform. , 2013, , .	0	
63	40-Gb/s silicon modulators for mid-reach applications at 1550 nm. , 2014, , .	0	
64	Optimized silicon photonic components for high-performance interconnect systems. , 2015, , .	0	
65	High-speed BPSK modulation using a silicon modulator. , 2015, , .	0	
66	40-Gb/s BPSK modulation using a silicon modulator. , 2015, , .	0	