

Lin Yang

List of Publications by Year in descending order

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41
papers

1,636
citations

318942

23
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325983

40
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all docs

41
docs citations

41
times ranked

1350
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of directed XOR/XNOR logic gates using two cascaded microring resonators. Optics Letters, 2010, 35, 1620.	1.7	155
2	Five-port optical router for photonic networks-on-chip. Optics Express, 2011, 19, 20258.	1.7	149
3	Four-channel reconfigurable optical add-drop multiplexer based on photonic wire waveguide. Optics Express, 2009, 17, 5502.	1.7	109
4	Proof of concept of directed OR/NOR and AND/NAND logic circuit consisting of two parallel microring resonators. Optics Letters, 2011, 36, 1650.	1.7	105
5	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
6	Inverse-Design and Demonstration of Ultracompact Silicon Meta-Structure Mode Exchange Device. ACS Photonics, 2018, 5, 1833-1838.	3.2	80
7	A Generic Optical Router Design for Photonic Network-on-Chips. Journal of Lightwave Technology, 2012, 30, 368-376.	2.7	76
8	Demonstration of reconfigurable electro-optical logic with silicon photonic integrated circuits. Optics Letters, 2012, 37, 3942.	1.7	72
9	On-chip CMOS-compatible optical signal processor. Optics Express, 2012, 20, 13560.	1.7	66
10	A Universal Method for Constructing N-Port Nonblocking Optical Router for Photonic Networks-On-Chip. Journal of Lightwave Technology, 2012, 30, 3736-3741.	2.7	66
11	Five-Port Optical Router Based on Microring Switches for Photonic Networks-on-Chip. IEEE Photonics Technology Letters, 2013, 25, 492-495.	1.3	65
12	Low-voltage, high-extinction-ratio, Mach-Zehnder silicon optical modulator for CMOS-compatible integration. Optics Express, 2012, 20, 3209.	1.7	54
13	Electro-Optical Response Analysis of a 40 Gb/s Silicon Mach-Zehnder Optical Modulator. Journal of Lightwave Technology, 2013, 31, 2434-2440.	2.7	53
14	Optical switch compatible with wavelength division multiplexing and mode division multiplexing for photonic networks-on-chip. Optics Express, 2017, 25, 20698.	1.7	52
15	WDM-compatible multimode optical switching system-on-chip. Nanophotonics, 2019, 8, 889-898.	2.9	42
16	Simultaneous implementation of XOR and XNOR operations using a directed logic circuit based on two microring resonators. Optics Express, 2011, 19, 6524.	1.7	37
17	Demonstration of a directed optical encoder using microring-resonator-based optical switches. Optics Letters, 2011, 36, 3795.	1.7	36
18	Cascading Second-Order Microring Resonators for a Box-Like Filter Response. Journal of Lightwave Technology, 2017, 35, 5347-5360.	2.7	36

#	ARTICLE	IF	CITATIONS
19	High-Speed Silicon Mach-Zehnder Optical Modulator With Large Optical Bandwidth. <i>Journal of Lightwave Technology</i> , 2014, 32, 966-970.	2.7	34
20	Polarization-independent tunable optical filter with variable bandwidth based on silicon-on-insulator waveguides. <i>Nanophotonics</i> , 2018, 7, 1469-1477.	2.9	33
21	Reconfigurable nonblocking 4-port silicon thermo-optic optical router based on Mach-Zehnder optical switches. <i>Optics Letters</i> , 2015, 40, 1402.	1.7	28
22	XOR/XNOR directed logic circuit based on coupled microresonator-induced transparency. <i>Laser and Photonics Reviews</i> , 2013, 7, 109-113.	4.4	26
23	Microring modulator matrix integrated with mode multiplexer and de-multiplexer for on-chip optical interconnect. <i>Optics Express</i> , 2017, 25, 422.	1.7	26
24	Demonstration of a 3-bit optical digital-to-analog converter based on silicon microring resonators. <i>Optics Letters</i> , 2014, 39, 5736.	1.7	22
25	Optical PAM-4 signal generation using a silicon Mach-Zehnder optical modulator. <i>Optics Express</i> , 2017, 25, 23003.	1.7	21
26	Experimental demonstration of a reconfigurable electro-optic directed logic circuit using cascaded carrier-injection micro-ring resonators. <i>Scientific Reports</i> , 2017, 7, 6410.	1.6	18
27	Six-port optical switch for cluster-mesh photonic network-on-chip. <i>Nanophotonics</i> , 2018, 7, 827-835.	2.9	13
28	Integrated five-port non-blocking optical router based on mode-selective property. <i>Nanophotonics</i> , 2018, 7, 853-858.	2.9	12
29	Pass-block architecture for distributed-phase-reference quantum key distribution using silicon photonics. <i>Optics Letters</i> , 2020, 45, 2014.	1.7	11
30	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
31	Polarization-Based Quantum Key Distribution Encoder and Decoder on Silicon Photonics. <i>Journal of Lightwave Technology</i> , 2022, 40, 2052-2059.	2.7	7
32	Rearrangeable-Nonblocking Five-Port Silicon Optical Switch for 2-D-Mesh Network on Chip. <i>IEEE Photonics Journal</i> , 2018, 10, 1-8.	1.0	6
33	Polarization-independent, lithium-niobate-on-insulator directional coupler based on a combined coupling-sections design. <i>Applied Optics</i> , 2020, 59, 8668.	0.9	6
34	Guided-mode based arbitrary signal switching through an inverse-designed ultra-compact mode switching device. <i>Optics Express</i> , 2022, 30, 15446.	1.7	5
35	Electro-Optic Directed XNOR Logic Gate Based on U-Shaped Waveguides and Microring Resonators. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1305-1308.	1.3	4
36	Low-voltage linear silicon optical modulator with a single-drive parallel-push-pull scheme. <i>Optics Communications</i> , 2018, 407, 271-274.	1.0	4

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37	Polarization-independent symmetrical directional coupler utilizing orientation-engineered method on the x-cut lithium-niobate-on-insulator. Optics Communications, 2021, 479, 126365.	1.0	4
38	Study on the Methods for Generating Optical PAM-4 Signal With the Standard Silicon Mach-Zehnder Optical Modulator. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	3
39	CMOS-compatible ultra-compact silicon multimode waveguide bend based on inverse design method. Optics Communications, 2022, 523, 128733.	1.0	3
40	Interface of Electrical Data-Bus to Multimode Optical Data-Bus Using Racetrack Microring Resonators. IEEE Photonics Technology Letters, 2019, 31, 1397-1400.	1.3	2
41	Solving Interdisciplinary Problems with Inverse-designed Photonics Integrated Circuits. , 2021, , .		1