

# Lin Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7502354/publications.pdf>

Version: 2024-02-01

41  
papers

1,636  
citations

318942

23  
h-index

325983

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1350  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization-Based Quantum Key Distribution Encoder and Decoder on Silicon Photonics. Journal of Lightwave Technology, 2022, 40, 2052-2059.	2.7	7
2	Guided-mode based arbitrary signal switching through an inverse-designed ultra-compact mode switching device. Optics Express, 2022, 30, 15446.	1.7	5
3	CMOS-compatible ultra-compact silicon multimode waveguide bend based on inverse design method. Optics Communications, 2022, 523, 128733.	1.0	3
4	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
5	Solving Interdisciplinary Problems with Inverse-designed Photonics Integrated Circuits. , 2021, , .		1
6	Mode-Oriented Permutation Cipher Encryption and Passive Signal Switching Based on Multiobjective Optimized Silicon Subwavelength Metastructures. ACS Photonics, 2020, 7, 2163-2172.	3.2	7
7	Polarization-independent, lithium-niobate-on-insulator directional coupler based on a combined coupling-sections design. Applied Optics, 2020, 59, 8668.	0.9	6
8	Pass-block architecture for distributed-phase-reference quantum key distribution using silicon photonics. Optics Letters, 2020, 45, 2014.	1.7	11
9	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
10	WDM-compatible multimode optical switching system-on-chip. Nanophotonics, 2019, 8, 889-898.	2.9	42
11	Integrated five-port non-blocking optical router based on mode-selective property. Nanophotonics, 2018, 7, 853-858.	2.9	12
12	Inverse-Design and Demonstration of Ultracompact Silicon Meta-Structure Mode Exchange Device. ACS Photonics, 2018, 5, 1833-1838.	3.2	80
13	Low-voltage linear silicon optical modulator with a single-drive parallel-push-pull scheme. Optics Communications, 2018, 407, 271-274.	1.0	4
14	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
15	Six-port optical switch for cluster-mesh photonic network-on-chip. Nanophotonics, 2018, 7, 827-835.	2.9	13
16	Polarization-independent tunable optical filter with variable bandwidth based on silicon-on-insulator waveguides. Nanophotonics, 2018, 7, 1469-1477.	2.9	33
17	Rearrangeable-Nonblocking Five-Port Silicon Optical Switch for 2-D-Mesh Network on Chip. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	6
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

#	ARTICLE	IF	CITATIONS
19	Cascading Second-Order Microring Resonators for a Box-Like Filter Response. <i>Journal of Lightwave Technology</i> , 2017, 35, 5347-5360.	2.7	36
20	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
21	Optical PAM-4 signal generation using a silicon Mach-Zehnder optical modulator. <i>Optics Express</i> , 2017, 25, 23003.	1.7	21
22	Optical switch compatible with wavelength division multiplexing and mode division multiplexing for photonic networks-on-chip. <i>Optics Express</i> , 2017, 25, 20698.	1.7	52
23	Silicon and hybrid silicon photonic devices for intra-datacenter applications: state of the art and perspectives [Invited]. <i>Photonics Research</i> , 2015, 3, B10.	3.4	87
24	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
25	High-Speed Silicon Mach-Zehnder Optical Modulator With Large Optical Bandwidth. <i>Journal of Lightwave Technology</i> , 2014, 32, 966-970.	2.7	34
26	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
27	XOR/XNOR directed logic circuit based on coupled-resonator-induced transparency. <i>Laser and Photonics Reviews</i> , 2013, 7, 109-113.	4.4	26
28	Five-Port Optical Router Based on Microring Switches for Photonic Networks-on-Chip. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 492-495.	1.3	65
29	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
30	Electro-Optical Response Analysis of a 40 Gb/s Silicon Mach-Zehnder Optical Modulator. <i>Journal of Lightwave Technology</i> , 2013, 31, 2434-2440.	2.7	53
31	On-chip CMOS-compatible optical signal processor. <i>Optics Express</i> , 2012, 20, 13560.	1.7	66
32	Low-voltage, high-extinction-ratio, Mach-Zehnder silicon optical modulator for CMOS-compatible integration. <i>Optics Express</i> , 2012, 20, 3209.	1.7	54
33	Demonstration of reconfigurable electro-optical logic with silicon photonic integrated circuits. <i>Optics Letters</i> , 2012, 37, 3942.	1.7	72
34	A Universal Method for Constructing N-Port Nonblocking Optical Router for Photonic Networks-On-Chip. <i>Journal of Lightwave Technology</i> , 2012, 30, 3736-3741.	2.7	66
35	A Generic Optical Router Design for Photonic Network-on-Chips. <i>Journal of Lightwave Technology</i> , 2012, 30, 368-376.	2.7	76
36	Simultaneous implementation of XOR and XNOR operations using a directed logic circuit based on two microring resonators. <i>Optics Express</i> , 2011, 19, 6524.	1.7	37

#	ARTICLE	IF	CITATIONS
37	Five-port optical router for photonic networks-on-chip. Optics Express, 2011, 19, 20258.	1.7	149
38	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
39	Demonstration of a directed optical encoder using microring-resonator-based optical switches. Optics Letters, 2011, 36, 3795.	1.7	36
40	Demonstration of directed XOR/XNOR logic gates using two cascaded microring resonators. Optics Letters, 2010, 35, 1620.	1.7	155
41	Four-channel reconfigurable optical add-drop multiplexer based on photonic wire waveguide. Optics Express, 2009, 17, 5502.	1.7	109