# Lin Yang

List of Publications by Year
in descending order



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|---|---|---|---|
| 41 papers | 1,636 citations | 279798 23 h-index | 289244 40 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 1138 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Demonstration of directed XOR/XNOR logic gates using two cascaded microring resonators. Optics Letters, 2010, 35, 1620. | 3.3 | 155 |
| 2 | Five-port optical router for photonic networks-on-chip. Optics Express, 2011, 19, 20258. | 3.4 | 149 |
| 3 | Four-channel reconfigurable optical add-drop multiplexer based on photonic wire waveguide. Optics Express, 2009, 17, 5502. | 3.4 | 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. | 3.3 | 105 |
| 5 | Silicon and hybrid silicon photonic devices for intra-datacenter applications: state of the art and perspectives [Invited]. Photonics Research, 2015, 3, B10. | 7.0 | 87 |
| 6 | Inverse-Design and Demonstration of Ultracompact Silicon Meta-Structure Mode Exchange Device. ACS Photonics, 2018, 5, 1833-1838. | 6.6 | 80 |
| 7 | A Generic Optical Router Design for Photonic Network-on-Chips. Journal of Lightwave Technology, 2012, 30, 368-376. | 4.6 | 76 |
| 8 | Demonstration of reconfigurable electro-optical logic with silicon photonic integrated circuits. Optics Letters, 2012, 37, 3942. | 3.3 | 72 |
| 9 | On-chip CMOS-compatible optical signal processor. Optics Express, 2012, 20, 13560. | 3.4 | 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. | 4.6 | 66 |
| 11 | Five-Port Optical Router Based on Microring Switches for Photonic Networks-on-Chip. IEEE Photonics Technology Letters, 2013, 25, 492-495. | 2.5 | 65 |
| 12 | Low-voltage, high-extinction-ratio, Mach-Zehnder silicon optical modulator for CMOS-compatible integration. Optics Express, 2012, 20, 3209. | 3.4 | 54 |
| 13 | Electro-Optical Response Analysis of a 40 Gb/s Silicon Mach-Zehnder Optical Modulator. Journal of Lightwave Technology, 2013, 31, 2434-2440. | 4.6 | 53 |
| 14 | Optical switch compatible with wavelength division multiplexing and mode division multiplexing for photonic networks-on-chip. Optics Express, 2017, 25, 20698. | 3.4 | 52 |
| 15 | WDM-compatible multimode optical switching system-on-chip. Nanophotonics, 2019, 8, 889-898. | 6.0 | 42 |
| 16 | Simultaneous implementation of XOR and XNOR operations using a directed logic circuit based on two microring resonators. Optics Express, 2011, 19, 6524. | 3.4 | 37 |
| 17 | Demonstration of a directed optical encoder using microring-resonator-based optical switches. Optics Letters, 2011, 36, 3795. | 3.3 | 36 |
| 18 | Cascading Second-Order Microring Resonators for a Box-Like Filter Response. Journal of Lightwave Technology, 2017, 35, 5347-5360. | 4.6 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | High-Speed Silicon Machâ€"Zehnder Optical Modulator With Large Optical Bandwidth. Journal of Lightwave Technology, 2014, 32, 966-970. | 4.6 | 34 |
| 20 | Polarization-independent tunable optical filter with variable bandwidth based on silicon-on-insulator waveguides. Nanophotonics, 2018, 7, 1469-1477. | 6.0 | 33 |
| 21 | Reconfigurable nonblocking 4-port silicon thermo-optic optical router based on Machâ€"Zehnder optical switches. Optics Letters, 2015, 40, 1402. | 3.3 | 28 |
| 22 | XOR/XNOR directed logic circuit based on coupledâ€resonatorâ€induced transparency. Laser and Photonics Reviews, 2013, 7, 109-113. | 8.7 | 26 |
| 23 | Microring modulator matrix integrated with mode multiplexer and de-multiplexer for on-chip optical interconnect. Optics Express, 2017, 25, 422. | 3.4 | 26 |
| 24 | Demonstration of a 3-bit optical digital-to-analog converter based on silicon microring resonators. Optics Letters, 2014, 39, 5736. | 3.3 | 22 |
| 25 | Optical PAM-4 signal generation using a silicon Mach-Zehnder optical modulator. Optics Express, 2017, 25, 23003. | 3.4 | 21 |
| 26 | Experimental demonstration of a reconfigurable electro-optic directed logic circuit using cascaded carrier-injection micro-ring resonators. Scientific Reports, 2017, 7, 6410. | 3.3 | 18 |
| 27 | Six-port optical switch for cluster-mesh photonic network-on-chip. Nanophotonics, 2018, 7, 827-835. | 6.0 | 13 |
| 28 | Integrated five-port non-blocking optical router based on mode-selective property. Nanophotonics, 2018, 7, 853-858. | 6.0 | 12 |
| 29 | Pass-block architecture for distributed-phase-reference quantum key distribution using silicon photonics. Optics Letters, 2020, 45, 2014. | 3.3 | 11 |
| 30 | Mode-Oriented Permutation Cipher Encryption and Passive Signal Switching Based on Multiobjective Optimized Silicon Subwavelength Metastructures. ACS Photonics, 2020, 7, 2163-2172. | 6.6 | 7 |
| 31 | Polarization-Based Quantum Key Distribution Encoder and Decoder on Silicon Photonics. Journal of Lightwave Technology, 2022, 40, 2052-2059. | 4.6 | 7 |
| 32 | Rearrangeable-Nonblocking Five-Port Silicon Optical Switch for 2-D-Mesh Network on Chip. IEEE Photonics Journal, 2018, 10, 1-8. | 2.0 | 6 |
| 33 | Polarization-independent, lithium-niobate-on-insulator directional coupler based on a combined coupling-sections design. Applied Optics, 2020, 59, 8668. | 1.8 | 6 |
| 34 | Guided-mode based arbitrary signal switching through an inverse-designed ultra-compact mode switching device. Optics Express, 2022, 30, 15446. | 3.4 | 5 |
| 35 | Electro-Optic Directed XNOR Logic Gate Based on U-Shaped Waveguides and Microring Resonators. IEEE Photonics Technology Letters, 2013, 25, 1305-1308. | 2.5 | 4 |
| 36 | Low-voltage linear silicon optical modulator with a single-drive parallel-pushâ€"pull scheme. Optics Communications, 2018, 407, 271-274. | 2.1 | 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. | 2.1 | 4 |
| 38 | Study on the Methods for Generating Optical PAM-4 Signal With the Standard Silicon Machâ€"Zehnder Optical Modulator. IEEE Photonics Journal, 2018, 10, 1-12. | 2.0 | 3 |
| 39 | CMOS-compatible ultra-compact silicon multimode waveguide bend based on inverse design method. Optics Communications, 2022, 523, 128733. | 2.1 | 3 |
| 40 | Interface of Electrical Data-Bus to Multimode Optical Data-Bus Using Racetrack Microring Resonators. IEEE Photonics Technology Letters, 2019, 31, 1397-1400. | 2.5 | 2 |
| 41 | Solving Interdisciplinary Problems with Inverse-designed Photonics Integrated Circuits. , 2021, , . | | 1 |