# Daoxin Dai

List of Publications by Year
in descending order



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|---|---|---|---|
| 303 papers | 14,780 citations | 20817 60 h-index | 22166 113 g-index |
| 303 all docs | 303 docs citations | 303 times ranked | 8695 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253. | 27.8 | 1,555 |
| 2 | A silicon-based hybrid plasmonic waveguide with a metal cap for a nano-scale light confinement. Optics Express, 2009, 17, 16646. | 3.4 | 500 |
| 3 | Passive technologies for future large-scale photonic integrated circuits on silicon: polarization handling, light non-reciprocity and loss reduction. Light: Science and Applications, 2012, 1, e1-e1. | 16.6 | 415 |
| 4 | Ultra-low-loss high-aspect-ratio Si_3N_4 waveguides. Optics Express, 2011, 19, 3163. | 3.4 | 414 |
| 5 | Silicon mode (de)multiplexer enabling high capacity photonic networks-on-chip with a single-wavelength-carrier light. Optics Letters, 2013, 38, 1422. | 3.3 | 356 |
| 6 | Novel concept for ultracompact polarization splitter-rotator based on silicon nanowires. Optics Express, 2011, 19, 10940. | 3.4 | 334 |
| 7 | Polarization management for silicon photonic integrated circuits. Laser and Photonics Reviews, 2013, 7, 303-328. | 8.7 | 265 |
| 8 | Silicon-based on-chip multiplexing technologies and devices for Peta-bit optical interconnects. Nanophotonics, 2014, 3, 283-311. | 6.0 | 262 |
| 9 | Onâ€chip silicon 8â€channel hybrid (de)multiplexer enabling simultaneous modeâ€and polarizationâ€divisionâ€multiplexing. Laser and Photonics Reviews, 2014, 8, L18. | 8.7 | 251 |
| 10 | A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. Npj 2D Materials and Applications, 2017, 1, . | 7.9 | 211 |
| 11 | 10â€Channel Mode (de)multiplexer with Dual Polarizations. Laser and Photonics Reviews, 2018, 12, 1700109. | 8.7 | 210 |
| 12 | Mode conversion in tapered submicron silicon ridge optical waveguides. Optics Express, 2012, 20, 13425. | 3.4 | 207 |
| 13 | Multimode silicon photonics. Nanophotonics, 2019, 8, 227-247. | 6.0 | 203 |
| 14 | Novel ultra-short and ultra-broadband polarization beam splitter based on a bent directional coupler. Optics Express, 2011, 19, 18614. | 3.4 | 197 |
| 15 | Improved 8-channel silicon mode demultiplexer with grating polarizers. Optics Express, 2014, 22, 12799. | 3.4 | 181 |
| 16 | Ultrashort broadband polarization beam splitter based on an asymmetrical directional coupler. Optics Letters, 2011, 36, 2590. | 3.3 | 180 |
| 17 | Silicon/2D-material photodetectors: from near-infrared to mid-infrared. Light: Science and Applications, 2021, 10, 123. | 16.6 | 177 |
| 18 | Low-loss Si_3N_4 arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. Optics Express, 2011, 19, 14130. | 3.4 | 173 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Ultrasmall Si-nanowire-based polarization rotator. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 747. | 2.1 | 165 |
| 20 | Electrically-pumped compact hybrid silicon microring lasers for optical interconnects. Optics Express, 2009, 17, 20355. | 3.4 | 165 |
| 21 | All-optical graphene modulator based on optical Kerr phase shift. Optica, 2016, 3, 541. | 9.3 | 164 |
| 22 | Ultra-broadband high-performance polarizing beam splitter on silicon. Optics Express, 2017, 25, 6069. | 3.4 | 162 |
| 23 | Low-loss and broadband 2â€‰Ã—â€‰2 silicon thermo-optic Machâ€“Zehnder switch with bent directional couplers. Optics Letters, 2016, 41, 836. | 3.3 | 159 |
| 24 | Low-loss hybrid plasmonic waveguide with double low-index nano-slots. Optics Express, 2010, 18, 17958. | 3.4 | 155 |
| 25 | High-performance siliconâ^'graphene hybrid plasmonic waveguide photodetectors beyond 1.55â€‰Î¼m. Light: Science and Applications, 2020, 9, 29. | 16.6 | 155 |
| 26 | Low-loss ultracompact transverse-magnetic-pass polarizer with a silicon subwavelength grating waveguide. Optics Letters, 2014, 39, 4514. | 3.3 | 144 |
| 27 | Ultracompact and broadband polarization beam splitter utilizing the evanescent coupling between a hybrid plasmonic waveguide and a silicon nanowire. Optics Letters, 2013, 38, 3005. | 3.3 | 135 |
| 28 | Compact broadband polarizer based on shallowly-etched silicon-on-insulator ridge optical waveguides. Optics Express, 2010, 18, 27404. | 3.4 | 131 |
| 29 | Thermally tunable silicon photonic microdisk resonator with transparent graphene nanoheaters. Optica, 2016, 3, 159. | 9.3 | 131 |
| 30 | Ultracompact polarization beam splitter based on a dielectricâ€“hybrid plasmonicâ€“dielectric coupler. Optics Letters, 2012, 37, 3372. | 3.3 | 125 |
| 31 | Monolithically integrated 64-channel silicon hybrid demultiplexer enabling simultaneous wavelength- and mode-division-multiplexing. Laser and Photonics Reviews, 2015, 9, 339-344. | 8.7 | 122 |
| 32 | Ultracompact low-loss coupler between strip and slot waveguides. Optics Letters, 2009, 34, 1498. | 3.3 | 119 |
| 33 | Compact Polarization Beam Splitter Using an Asymmetrical Machâ€“Zehnder Interferometer Based on Silicon-on-Insulator Waveguides. IEEE Photonics Technology Letters, 2012, 24, 673-675. | 2.5 | 118 |
| 34 | Ultraâ€Broadband and Ultraâ€Compact Onâ€Chip Silicon Polarization Beam Splitter by Using Heteroâ€Anisotropic Metamaterials. Laser and Photonics Reviews, 2019, 13, 1800349. | 8.7 | 117 |
| 35 | Extremely small polarization beam splitter based on a multimode interference coupler with a silicon hybrid plasmonic waveguide. Optics Letters, 2014, 39, 259. | 3.3 | 115 |
| 36 | Highly sensitive digital optical sensor based on cascaded high-Q ring-resonators. Optics Express, 2009, 17, 23817. | 3.4 | 114 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Realization of an ultra-short silicon polarization beam splitter with an asymmetrical bent directional coupler. Optics Letters, 2013, 38, 4. | 3.3 | 112 |
| 38 | Silicon Polarization Beam Splitter Based on an Asymmetrical Evanescent Coupling System With Three Optical Waveguides. Journal of Lightwave Technology, 2012, 30, 3281-3287. | 4.6 | 110 |
| 39 | SILICON MULTIMODE PHOTONIC INTEGRATED DEVICES FOR ON-CHIP MODE-DIVISION-MULTIPLEXED OPTICAL INTERCONNECTS. Progress in Electromagnetics Research, 2013, 143, 773-819. | 4.4 | 109 |
| 40 | Low-loss and low-crosstalk multimode waveguide bend on silicon. Optics Express, 2018, 26, 17680. | 3.4 | 107 |
| 41 | High-sensitivity liquid refractive-index sensor based on a Mach-Zehnder interferometer with a double-slot hybrid plasmonic waveguide. Optics Express, 2015, 23, 25688. | 3.4 | 106 |
| 42 | Silicon Nanophotonic Integrated Devices for On-Chip Multiplexing and Switching. Journal of Lightwave Technology, 2017, 35, 572-587. | 4.6 | 104 |
| 43 | Realization of a compact polarization splitter-rotator on silicon. Optics Letters, 2016, 41, 2346. | 3.3 | 93 |
| 44 | A programmable qudit-based quantum processor. Nature Communications, 2022, 13, 1166. | 12.8 | 93 |
| 45 | High-order microring resonators with bent couplers for a box-like filter response. Optics Letters, 2014, 39, 6304. | 3.3 | 92 |
| 46 | Highâ€Speed and Highâ€Responsivity Hybrid Silicon/Blackâ€Phosphorus Waveguide Photodetectors at 2ÂÂµm. Laser and Photonics Reviews, 2019, 13, 1900032. | 8.7 | 91 |
| 47 | Gain enhancement in a hybrid plasmonic nano-waveguide with a low-index or high-index gain medium. Optics Express, 2011, 19, 12925. | 3.4 | 87 |
| 48 | Ultraâ€Sharp Multimode Waveguide Bends with Subwavelength Gratings. Laser and Photonics Reviews, 2019, 13, 1800119. | 8.7 | 87 |
| 49 | Ultrahigh-Q silicon racetrack resonators. Photonics Research, 2020, 8, 684. | 7.0 | 86 |
| 50 | Proposal for a Grating Waveguide Serving as Both a Polarization Splitter and an Efficient Coupler for Silicon-on-Insulator Nanophotonic Circuits. IEEE Photonics Technology Letters, 2009, 21, 242-244. | 2.5 | 84 |
| 51 | Silicon hybrid demultiplexer with 64 channels for wavelength/mode-division multiplexed on-chip optical interconnects. Optics Letters, 2014, 39, 6993. | 3.3 | 81 |
| 52 | Silicon hybrid plasmonic submicron-donut resonator with pure dielectric access waveguides. Optics Express, 2011, 19, 23671. | 3.4 | 78 |
| 53 | Sub-Î¼m^2 power splitters by using silicon hybrid plasmonic waveguides. Optics Express, 2011, 19, 838. | 3.4 | 72 |
| 54 | Fabrication and Characterization of Small Optical Ridge Waveguides Based on SU-8 Polymer. Journal of Lightwave Technology, 2009, 27, 4091-4096. | 4.6 | 70 |

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|---|---|---|---|
| 55 | Flexible integration of free-standing nanowires into silicon photonics. Nature Communications, 2017, 8, 20. | 12.8 | 70 |
| 56 | Highly sensitive Si nanowire-based optical sensor using a Machâ€“Zehnder interferometer coupled microring. Optics Letters, 2010, 35, 4229. | 3.3 | 67 |
| 57 | Advanced Passive Silicon Photonic Devices With Asymmetric Waveguide Structures. Proceedings of the IEEE, 2018, 106, 2117-2143. | 21.3 | 67 |
| 58 | On-chip reconfigurable optical add-drop multiplexer for hybrid wavelength/mode-division-multiplexing systems. Optics Letters, 2017, 42, 2802. | 3.3 | 66 |
| 59 | Proposal for an Ultracompact Polarization-Beam Splitter Based on a Photonic-Crystal-Assisted Multimode Interference Coupler. IEEE Photonics Technology Letters, 2007, 19, 825-827. | 2.5 | 65 |
| 60 | Graphene-based transparent flexible heat conductor for thermally tuning nanophotonic integrated devices. Applied Physics Letters, 2014, 105, . | 3.3 | 65 |
| 61 | Experimental demonstration of ultra-compact directional couplers based on silicon hybrid plasmonic waveguides. Applied Physics Letters, 2012, 100, . | 3.3 | 60 |
| 62 | Experimental demonstration of an ultracompact Si-nanowire-based reflective arrayed-waveguide grating (de)multiplexer with photonic crystal reflectors. Optics Letters, 2010, 35, 2594. | 3.3 | 58 |
| 63 | Wavelength-selective 2â€‰â€‰Ã—â€‰â€‰2 optical switch based on a Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>-assisted microring. Photonics Research, 2020, 8, 1171. | 7.0 | 58 |
| 64 | Shortened Polarization Beam Splitters With Two Cascaded Multimode Interference Sections. IEEE Photonics Technology Letters, 2009, 21, 1538-1540. | 2.5 | 56 |
| 65 | Cascaded-Ring Optical Sensor With Enhanced Sensitivity by Using Suspended Si-Nanowires. IEEE Photonics Technology Letters, 2011, 23, 842-844. | 2.5 | 55 |
| 66 | Considerations for the Design of Asymmetrical Machâ€“Zehnder Interferometers Used as Polarization Beam Splitters on a Submicrometer Silicon-On-Insulator Platform. Journal of Lightwave Technology, 2011, 29, 1808-1817. | 4.6 | 55 |
| 67 | Local and Nonlocal Optically Induced Transparency Effects in Grapheneâ€“Silicon Hybrid Nanophotonic Integrated Circuits. ACS Nano, 2014, 8, 11386-11393. | 14.6 | 55 |
| 68 | Monolithically integrated reconfigurable add-drop multiplexer for mode-division-multiplexing systems. Optics Letters, 2016, 41, 5298. | 3.3 | 55 |
| 69 | Compact Dense Wavelength-Division (De)multiplexer Utilizing a Bidirectional Arrayed-Waveguide Grating Integrated With a Machâ€“Zehnder Interferometer. Journal of Lightwave Technology, 2015, 33, 2279-2285. | 4.6 | 53 |
| 70 | Silicon-based hybrid demultiplexer for wavelength- and mode-division multiplexing. Optics Letters, 2018, 43, 1962. | 3.3 | 53 |
| 71 | Compact polarization beam splitter for silicon photonic integrated circuits with a 340-nm-thick silicon core layer. Optics Letters, 2017, 42, 4243. | 3.3 | 53 |
| 72 | Mode converter based on an inverse taper for multimode silicon nanophotonic integrated circuits. Optics Express, 2015, 23, 28376. | 3.4 | 52 |

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|---|---|---|---|
| 73 | Double-Slot Hybrid Plasmonic Ring Resonator Used for Optical Sensors and Modulators. Photonics, 2015, 2, 1116-1130. | 2.0 | 51 |
| 74 | Compact monolithically-integrated hybrid (de)multiplexer based on silicon-on-insulator nanowires for PDM-WDM systems. Optics Express, 2015, 23, 12840. | 3.4 | 51 |
| 75 | Polarization-insensitive 2â€‰Ã—â€‰2 thermo-optic Machâ€“Zehnder switch on silicon. Optics Letters, 2018, 43, 2531. | 3.3 | 51 |
| 76 | Ultra-Compact Broadband 2 Ã— 2 3 dB Power Splitter Using a Subwavelength-Grating-Assisted Asymmetric Directional Coupler. Journal of Lightwave Technology, 2020, 38, 2370-2375. | 4.6 | 50 |
| 77 | Low-loss and low-crosstalk multi-channel mode (de)multiplexer with ultrathin silicon waveguides. Optics Letters, 2017, 42, 2370. | 3.3 | 49 |
| 78 | Anisotropic metamaterial-assisted all-silicon polarizer with 415-nm bandwidth. Photonics Research, 2019, 7, 1432. | 7.0 | 49 |
| 79 | Compact Arrayed Waveguide Grating Devices Based on Small SU-8 Strip Waveguides. Journal of Lightwave Technology, 2011, 29, 2009-2014. | 4.6 | 48 |
| 80 | Mode hybridization and conversion in silicon-on-insulator nanowires with angled sidewalls. Optics Express, 2015, 23, 32452. | 3.4 | 48 |
| 81 | Characteristic analysis of nanosilicon rectangular waveguides for planar light-wave circuits of high integration. Applied Optics, 2006, 45, 4941. | 2.1 | 47 |
| 82 | Subwavelength silicon photonics for on-chip mode-manipulation. PhotoniX, 2021, 2, . | 13.5 | 47 |
| 83 | On-chip single-mode CdS nanowire laser. Light: Science and Applications, 2020, 9, 42. | 16.6 | 45 |
| 84 | Ultra-broadband polarization beam splitter with silicon subwavelength-grating waveguides. Optics Letters, 2020, 45, 2259. | 3.3 | 45 |
| 85 | Ultralowâ€Loss Silicon Photonics beyond the Singlemode Regime. Laser and Photonics Reviews, 2022, 16, . | 8.7 | 45 |
| 86 | Suspended ultra-small disk resonator on silicon for optical sensing. Optics Letters, 2013, 38, 5405. | 3.3 | 44 |
| 87 | Submicron-resonator-based add-drop optical filter with an ultra-large free spectral range. Optics Express, 2019, 27, 416. | 3.4 | 43 |
| 88 | Design and analysis of ultra-compact EO polymer modulators based on hybrid plasmonic microring resonators. Optics Express, 2013, 21, 20041. | 3.4 | 42 |
| 89 | Ultra-Broadband Polarization Splitter-Rotator Based on the Mode Evolution in a Dual-Core Adiabatic Taper. Journal of Lightwave Technology, 2017, 35, 2227-2233. | 4.6 | 42 |
| 90 | Experimental demonstration of simultaneous mode and polarization-division multiplexing based on silicon densely packed waveguide array. Optics Letters, 2015, 40, 4655. | 3.3 | 41 |

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|---|---|---|---|
| 91 | Silicon Integrated Nanophotonic Devices for On-Chip Multi-Mode Interconnects. Applied Sciences (Switzerland), 2020, 10, 6365. | 2.5 | 41 |
| 92 | Silicon-graphene conductive photodetector with ultra-high responsivity. Scientific Reports, 2017, 7, 40904. | 3.3 | 41 |
| 93 | Proposal for an ultra-broadband polarization beam splitter using an anisotropy-engineered Mach-Zehnder interferometer on the x-cut lithium-niobate-on-insulator. Optics Express, 2020, 28, 10899. | 3.4 | 41 |
| 94 | Comparative study of the integration density for passive linear planar light-wave circuits based on three different kinds of nanophotonic waveguide. Applied Optics, 2007, 46, 1126. | 2.1 | 40 |
| 95 | Machâ€“Zehnder silicon-photonic switch with low random phase errors. Optics Letters, 2021, 46, 78. | 3.3 | 40 |
| 96 | High performance thin-film lithium niobate modulator on a silicon substrate using periodic capacitively loaded traveling-wave electrode. APL Photonics, 2022, 7, . | 5.7 | 40 |
| 97 | Novel Ultracompact Triplexer Based on Photonic Crystal Waveguides. IEEE Photonics Technology Letters, 2006, 18, 2293-2295. | 2.5 | 39 |
| 98 | Bilevel mode converter between a silicon nanowire waveguide and a larger waveguide. Journal of Lightwave Technology, 2006, 24, 2428-2433. | 4.6 | 39 |
| 99 | The Mooreâ€™s Law for photonic integrated circuits. Journal of Zhejiang University: Science A, 2006, 7, 1961-1967. | 2.4 | 39 |
| 100 | Compact Eight-Channel Thermally Reconfigurable Optical Add/Drop Multiplexers on Silicon. IEEE Photonics Technology Letters, 2016, 28, 1874-1877. | 2.5 | 39 |
| 101 | Silicon Multimode Waveguide Grating Filter at 2 Î¼m. Journal of Lightwave Technology, 2019, 37, 2217-2222. | 4.6 | 39 |
| 102 | Silicon photonic filters. Microwave and Optical Technology Letters, 2021, 63, 2252-2268. | 1.4 | 39 |
| 103 | Ultrasmall Thermally Tunable Microring Resonator With a Submicrometer Heater on Si Nanowires. Journal of Lightwave Technology, 2008, 26, 704-709. | 4.6 | 38 |
| 104 | Silicon-Based Hybrid (de)Multiplexer for Wavelength-/Polarization-Division-Multiplexing. Journal of Lightwave Technology, 2018, 36, 2051-2058. | 4.6 | 38 |
| 105 | Optimal design of an MMI coupler for broadening the spectral response of an AWG demultiplexer. Journal of Lightwave Technology, 2002, 20, 1957-1961. | 4.6 | 36 |
| 106 | Multimode optical waveguide enabling microbends with low inter-mode crosstalk for mode-multiplexed optical interconnects. Optics Express, 2014, 22, 27524. | 3.4 | 36 |
| 107 | Plasmonic Nanolasers: Pursuing Extreme Lasing Conditions on Nanoscale. Advanced Optical Materials, 2019, 7, 1900334. | 7.3 | 36 |
| 108 | Thermally-Reconfigurable Silicon Photonic Devices and Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-20. | 2.9 | 36 |

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|---|---|---|---|
| 109 | Design of a polarization-insensitive arrayed waveguide grating demultiplexer based on silicon photonic wires. Optics Letters, 2006, 31, 1988. | 3.3 | 35 |
| 110 | Compact Polarization Beam Splitter Based on a Three-Waveguide Asymmetric Coupler With a 340-nm-Thick Silicon Core Layer. Journal of Lightwave Technology, 2018, 36, 2129-2134. | 4.6 | 34 |
| 111 | Multimode silicon photonic waveguide corner-bend. Optics Express, 2020, 28, 9062. | 3.4 | 34 |
| 112 | Ultralow-loss compact silicon photonic waveguide spirals and delay lines. Photonics Research, 2022, 10, 1. | 7.0 | 34 |
| 113 | Four-Channel CWDM (de)Multiplexers Using Cascaded Multimode Waveguide Gratings. IEEE Photonics Technology Letters, 2020, 32, 192-195. | 2.5 | 33 |
| 114 | Comparative Study of Losses in Ultrasharp Silicon-on-Insulator Nanowire Bends. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1406-1412. | 2.9 | 32 |
| 115 | High extinctionâ€ratio compact polarisation beam splitter on silicon. Electronics Letters, 2016, 52, 1043-1045. | 1.0 | 31 |
| 116 | Low-crosstalk and fabrication-tolerant four-channel CWDM filter based on dispersion-engineered Mach-Zehnder interferometers. Optics Express, 2021, 29, 20617. | 3.4 | 31 |
| 117 | Compact electro-optic modulator on lithium niobate. Photonics Research, 2022, 10, 697. | 7.0 | 31 |
| 118 | Deeply Etched <formula formulatype="inline"><tex>$hbox{SiO}_{2}$</tex></formula> Ridge Waveguide for Sharp Bends. Journal of Lightwave Technology, 2006, 24, 5019-5024. | 4.6 | 30 |
| 119 | Ultra-broadband on-chip multimode power splitter with an arbitrary splitting ratio. OSA Continuum, 2020, 3, 1212. | 1.8 | 30 |
| 120 | Asymmetric directional couplers based on silicon nanophotonic waveguides and applications. Frontiers of Optoelectronics, 2016, 9, 450-465. | 3.7 | 28 |
| 121 | Design Rule of Mach-Zehnder Interferometer Sensors for Ultra-High Sensitivity. Sensors, 2020, 20, 2640. | 3.8 | 28 |
| 122 | On-chip simultaneous sensing of humidity and temperature with a dual-polarization silicon microring resonator. Optics Express, 2019, 27, 28649. | 3.4 | 28 |
| 123 | Utilization of Field Enhancement in Plasmonic Waveguides for Subwavelength Light-Guiding, Polarization Handling, Heating, and Optical Sensing. Materials, 2015, 8, 6772-6791. | 2.9 | 27 |
| 124 | Ultraâ€Compact and Ultraâ€Broadband Guidedâ€Mode Exchangers on Silicon. Laser and Photonics Reviews, 2020, 14, 2000058. | 8.7 | 27 |
| 125 | Silicon polarization beam splitter at the 2 Î¼m wavelength band by using a bent directional coupler assisted with a nano-slot waveguide. Optics Express, 2021, 29, 2720. | 3.4 | 27 |
| 126 | Low-loss and low-crosstalk silicon triplexer based on cascaded multimode waveguide gratings. Optics Letters, 2019, 44, 1304. | 3.3 | 27 |

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|---|---|---|---|
| 127 | Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001. | 2.2 | 27 |
| 128 | Demonstration of high-speed thin-film lithium-niobate-on-insulator optical modulators at the 2-Âµm wavelength. Optics Express, 2021, 29, 17710. | 3.4 | 26 |
| 129 | Improved performance of a silicon-on-insulator-based multimode interference coupler by using taper structures. Optics Communications, 2005, 253, 276-282. | 2.1 | 25 |
| 130 | Compact 2Ã—2 tapered multimode interference couplers based on SU-8 polymer rectangular waveguides. Applied Physics Letters, 2008, 93, . | 3.3 | 25 |
| 131 | Supercompact Photonic Quantum Logic Gate on a Silicon Chip. Physical Review Letters, 2021, 126, 130501. | 7.8 | 25 |
| 132 | Novel ultracompact Si-nanowire-based arrayed-waveguide grating with microbends. Optics Express, 2006, 14, 5260. | 3.4 | 24 |
| 133 | A 32-Channel Hybrid Wavelength-/Mode-Division (de)Multiplexer on Silicon. IEEE Photonics Technology Letters, 2018, 30, 1194-1197. | 2.5 | 24 |
| 134 | High-Order Adiabatic Elliptical-Microring Filter with an Ultra-Large Free-Spectral-Range. Journal of Lightwave Technology, 2021, 39, 5910-5916. | 4.6 | 24 |
| 135 | Hybrid silicon lasers for optical interconnects. New Journal of Physics, 2009, 11, 125016. | 2.9 | 23 |
| 136 | Compact Microracetrack Resonator Devices Based on Small SU-8 Polymer Strip Waveguides. IEEE Photonics Technology Letters, 2009, 21, 254-256. | 2.5 | 23 |
| 137 | Polarization-selective microring resonators. Optics Express, 2017, 25, 4106. | 3.4 | 23 |
| 138 | Highly-sensitive sensor with large measurement range realized with two cascaded-microring resonators. Optics Communications, 2007, 279, 89-93. | 2.1 | 22 |
| 139 | Resonant normal-incidence separate-absorption-charge-multiplication Ge/Si avalanche photodiodes. Optics Express, 2009, 17, 16549. | 3.4 | 22 |
| 140 | Variable optical attenuator based on a reflective Machâ€“Zehnder interferometer. Optics Communications, 2016, 361, 55-58. | 2.1 | 22 |
| 141 | Using a tapered MMI to flatten the passband of an AWG. Optics Communications, 2003, 219, 233-239. | 2.1 | 21 |
| 142 | Polarization Coupling of $X$-Cut Thin Film Lithium Niobate Based Waveguides. IEEE Photonics Journal, 2020, 12, 1-10. | 2.0 | 21 |
| 143 | Silicon mode-(de)multiplexer for a hybrid multiplexing system to achieve ultrahigh capacity photonic networks-on-chip with a single-wavelength-carrier light. , 2012, , . | | 21 |
| 144 | Silicon microring resonators. Journal of Optics (United Kingdom), 2018, 20, 054004. | 2.2 | 20 |

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| 145 | Hybrid silicon photonic devices with two-dimensional materials. Nanophotonics, 2020, 9, 2295-2314. | 6.0 | 20 |
| 146 | Ultrasmall Overlapped Arrayed-Waveguide Grating Based on Si Nanowire Waveguides for Dense Wavelength Division Demultiplexing. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1301-1305. | 2.9 | 19 |
| 147 | Derivation of the Small Signal Response and Equivalent Circuit Model for a Separate Absorption and Multiplication Layer Avalanche Photodetector. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1328-1336. | 2.9 | 19 |
| 148 | High-Performance Polarizing Beam Splitters Based on Cascaded Bent Directional Couplers. IEEE Photonics Technology Letters, 2017, 29, 474-477. | 2.5 | 19 |
| 149 | Compact Racetrack Resonator on LiNbO<sub>3</sub>. Journal of Lightwave Technology, 2021, 39, 1770-1776. | 4.6 | 19 |
| 150 | Polarization Multiplexing Silicon-Photonic Optical Phased Array for 2D Wide-Angle Optical Beam Steering. IEEE Photonics Journal, 2021, 13, 1-6. | 2.0 | 19 |
| 151 | First demonstration of an on-chip quadplexer for passive optical network systems. Photonics Research, 2021, 9, 757. | 7.0 | 19 |
| 152 | High-performance silicon polarization switch based on a Machâ€“Zehnder interferometer integrated with polarization-dependent mode converters. Nanophotonics, 2022, 11, 2293-2301. | 6.0 | 19 |
| 153 | Silicon Subwavelength-Grating Microdisks for Optical Sensing. IEEE Photonics Technology Letters, 2019, 31, 1209-1212. | 2.5 | 18 |
| 154 | Silicon-based polarization-insensitive optical filter with dual-gratings. Optics Express, 2019, 27, 20704. | 3.4 | 18 |
| 155 | Four-channel CWDM device on a thin-film lithium niobate platform using an angled multimode interferometer structure. Photonics Research, 2022, 10, 8. | 7.0 | 18 |
| 156 | Silicon Multimode Waveguide Crossing Based on Anisotropic Subwavelength Gratings. Laser and Photonics Reviews, 2022, 16, . | 8.7 | 18 |
| 157 | Proposal for Diminishment of the Polarization-Dependency in a Si-Nanowire Multimode Interference (MMI) Coupler by Tapering the MMI Section. IEEE Photonics Technology Letters, 2008, 20, 599-601. | 2.5 | 17 |
| 158 | High-Speed and High-Responsivity Silicon/Black-Phosphorus Hybrid Plasmonic Waveguide Avalanche Photodetector. ACS Photonics, 2022, 9, 1764-1774. | 6.6 | 17 |
| 159 | Improve Channel Uniformity of an Si-Nanowire AWG Demultiplexer by Using Dual-Tapered Auxiliary Waveguides. Journal of Lightwave Technology, 2007, 25, 3001-3007. | 4.6 | 16 |
| 160 | Sensitivity Enhancement in Si Nanophotonic Waveguides Used for Refractive Index Sensing. Sensors, 2016, 16, 324. | 3.8 | 16 |
| 161 | A Laser-Trimming-Assist Wavelength-Alignment Technique for Silicon Microdonut Resonators. IEEE Photonics Technology Letters, 2017, 29, 419-422. | 2.5 | 16 |
| 162 | Elimination of multimode effects in a silicon-on-insulator etched diffraction grating demultiplexer with bi-level taper structure. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 439-443. | 2.9 | 15 |

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|---|---|---|---|
| 163 | Novel ultrasmall Si-nanowire-based arrayed-waveguide grating interleaver with spirals. Optics Communications, 2008, 281, 3471-3475. | 2.1 | 14 |
| 164 | Design of an ultrashort Si-nanowaveguide-based multimode interference coupler of arbitrary shape. Applied Optics, 2008, 47, 38. | 2.1 | 14 |
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