

# Daoxin Dai

## List of Publications by Year in descending order

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303  
papers

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docs citations

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times ranked

8695  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Ultralow-loss compact silicon photonic waveguide spirals and delay lines. <i>Photonics Research</i> , 2022, 10, 1.  | 3.4 | 34        |
| 2  | Four-channel CWDM device on a thin-film lithium niobate platform using an angled multimode interferometer structure. <i>Photonics Research</i> , 2022, 10, 8.                           | 3.4 | 18        |
| 3  | Subwavelength-Structure-Assisted Ultracompact Polarization-Handling Components on Silicon. <i>Journal of Lightwave Technology</i> , 2022, 40, 1784-1801.                                | 2.7 | 12        |
| 4  | Silicon nonlinear switch as a conditional circulator for monostatic LiDAR systems. <i>Photonics Research</i> , 2022, 10, 426.   | 3.4 | 3         |
| 5  | On-chip silicon switchable polarization beam splitter. <i>Optics Letters</i> , 2022, 47, 961.   | 1.7 | 10        |
| 6  | Ultralow-loss Silicon Photonics beyond the Singlemode Regime. <i>Laser and Photonics Reviews</i> , 2022, 16, .  | 4.4 | 45        |
| 7  | Compact electro-optic modulator on lithium niobate. <i>Photonics Research</i> , 2022, 10, 697.  | 3.4 | 31        |
| 8  | High performance thin-film lithium niobate modulator on a silicon substrate using periodic capacitively loaded traveling-wave electrode. <i>APL Photonics</i> , 2022, 7, .              | 3.0 | 40        |
| 9  | A programmable qudit-based quantum processor. <i>Nature Communications</i> , 2022, 13, 1166.  | 5.8 | 93        |
| 10 | High-performance silicon polarization switch based on a Mach-Zehnder interferometer integrated with polarization-dependent mode converters. <i>Nanophotonics</i> , 2022, 11, 2293-2301. | 2.9 | 19        |
| 11 | High-performance waveguide Ge/Si avalanche photodiode with a lateral separate-absorption-charge-multiplication structure. <i>Optics Express</i> , 2022, 30, 11288.                      | 1.7 | 6         |
| 12 | Silicon Multimode Waveguide Crossing Based on Anisotropic Subwavelength Gratings. <i>Laser and Photonics Reviews</i> , 2022, 16, .  | 4.4 | 18        |
| 13 | High-bandwidth Si/In <sub>2</sub> O <sub>3</sub> hybrid plasmonic waveguide modulator. <i>APL Photonics</i> , 2022, 7, .  | 3.0 | 10        |
| 14 | Low-Loss Calibration-Free 2 × 2 Mach-Zehnder Switches With Varied-Width Multimode-Interference Couplers. <i>Journal of Lightwave Technology</i> , 2022, 40, 5254-5259.                  | 2.7 | 9         |
| 15 | High-Speed and High-Responsivity Silicon/Black-Phosphorus Hybrid Plasmonic Waveguide Avalanche Photodetector. <i>ACS Photonics</i> , 2022, 9, 1764-1774.                                | 3.2 | 17        |
| 16 | Reconfigurable add-drop filter based on an antisymmetric multimode photonic crystal nanobeam cavity in a silicon waveguide. <i>Optics Express</i> , 2022, 30, 17332.                    | 1.7 | 5         |
| 17 | High-performance silicon photonic filters based on all-passive tenth-order adiabatic elliptical-microrings. <i>APL Photonics</i> , 2022, 7, .   | 3.0 | 11        |
| 18 | Ultra-compact electro-optic modulator based on etchless lithium niobate photonic crystal nanobeam cavity. <i>Optics Express</i> , 2022, 30, 20839.                                      | 1.7 | 13        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Compact 100GBaud driverless thin-film lithium niobate modulator on a silicon substrate. Optics Express, 2022, 30, 25308.  | 1.7 | 12        |
| 20 | Roadmap on multimode photonics. Journal of Optics (United Kingdom), 2022, 24, 083001.   | 1.0 | 27        |
| 21 | Proposal for collinear integrated acousto-optic tunable filters featuring ultrawide tuning ranges and multi-band operations. Optics Express, 2022, 30, 24747.             | 1.7 | 1         |
| 22 | Silicon photonic filters. Microwave and Optical Technology Letters, 2021, 63, 2252-2268.  | 0.9 | 39        |
| 23 | Compact Racetrack Resonator on LiNbO <sub>3</sub> . Journal of Lightwave Technology, 2021, 39, 1770-1776.   | 2.7 | 19        |
| 24 | Silicon polarization beam splitter at the 2.14μm wavelength band by using a bent directional coupler assisted with a nano-slot waveguide. Optics Express, 2021, 29, 2720. | 1.7 | 27        |
| 25 | Supercompact Photonic Quantum Logic Gate on a Silicon Chip. Physical Review Letters, 2021, 126, 130501.   | 2.9 | 25        |
| 26 | High-performance all-silicon polarizer with 415nm bandwidth. Optics Letters, 2021, 46, 1321.  | 1.7 | 11        |
| 27 | Polarization Multiplexing Silicon-Photonic Optical Phased Array for 2D Wide-Angle Optical Beam Steering. IEEE Photonics Journal, 2021, 13, 1-6.                           | 1.0 | 19        |
| 28 | Silicon Nanophotonic Devices for On-chip Optical Modulation and Switching. , 2021, , .  |     | 0         |
| 29 | First demonstration of an on-chip quadplexer for passive optical network systems. Photonics Research, 2021, 9, 757.   | 3.4 | 19        |
| 30 | Ultra-sensitive silicon temperature sensor based on cascaded Mach-Zehnder interferometers. Optics Letters, 2021, 46, 2787.  | 1.7 | 12        |
| 31 | Demonstration of high-speed thin-film lithium-niobate-on-insulator optical modulators at the 2.1μm wavelength. Optics Express, 2021, 29, 17710.                           | 1.7 | 26        |
| 32 | Silicon/2D-material photodetectors: from near-infrared to mid-infrared. Light: Science and Applications, 2021, 10, 123.   | 7.7 | 177       |
| 33 | Low-crosstalk and fabrication-tolerant four-channel CWDM filter based on dispersion-engineered Mach-Zehnder interferometers. Optics Express, 2021, 29, 20617.             | 1.7 | 31        |
| 34 | Analysis of the Underwater Wireless Optical Communication Channel Based on a Comprehensive Multiparameter Model. Applied Sciences (Switzerland), 2021, 11, 6051.          | 1.3 | 13        |
| 35 | Fabrication-Friendly On-Chip Silicon Polarizer Based on Polarization-Selective Corner Mirrors. IEEE Photonics Technology Letters, 2021, 33, 652-655.                      | 1.3 | 4         |
| 36 | Subwavelength silicon photonics for on-chip mode-manipulation. Photonix, 2021, 2, .   | 5.5 | 47        |

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|----|--|-----|-----------|
| 37 | High-Order Adiabatic Elliptical-Microring Filter with an Ultra-Large Free-Spectral-Range. Journal of Lightwave Technology, 2021, 39, 5910-5916.              | 2.7 | 24        |
| 38 | Multimode Silicon Photonics Devices. , 2021, , .   |     | 2         |
| 39 | High-performance polarization-handling devices on silicon. , 2021, , .   |     | 1         |
| 40 | Mach-Zehnder silicon-photonic switch with low random phase errors. Optics Letters, 2021, 46, 78.   | 1.7 | 40        |
| 41 | Silicon Photonics beyond the singlemode regime. , 2021, , .  |     | 0         |
| 42 | Direct-access mode-division multiplexing switch for scalable on-chip multi-mode networks. Nanophotonics, 2021, 10, 4551-4566.                                | 2.9 | 10        |
| 43 | High-performance Silicon Quadplexer for Passive Optical Networks. , 2021, , .  |     | 1         |
| 44 | Silicon-Graphene Heterojunction Waveguide Photodetector with a 3dB-bandwidth of >14 GHz. , 2021, , .   |     | 1         |
| 45 | Tunable Acousto-Optic Filter Based on Suspended Lithium Niobate Waveguides. , 2021, , .  |     | 0         |
| 46 | Subwavelength-structure-assisted multimode add-drop multiplexer. , 2021, , .   |     | 1         |
| 47 | High-performance Silicon Photonic Filters based on High-order Adiabatic Elliptical-microrings. , 2021, , .   |     | 0         |
| 48 | Silicon Integrated Nanophotonic Devices for On-Chip Multi-Mode Interconnects. Applied Sciences (Switzerland), 2020, 10, 6365.                                | 1.3 | 41        |
| 49 | High Efficiency Silicon Edge Coupler Based On Uniform Arrayed Waveguides With Un-Patterned Cladding. IEEE Photonics Technology Letters, 2020, 32, 1077-1080. | 1.3 | 13        |
| 50 | Design Rule of Mach-Zehnder Interferometer Sensors for Ultra-High Sensitivity. Sensors, 2020, 20, 2640.  | 2.1 | 28        |
| 51 | Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. IEEE Photonics Journal, 2020, 12, 1-10.   | 1.0 | 21        |
| 52 | Ultra-Compact and Ultra-Broadband Guided-Mode Exchangers on Silicon. Laser and Photonics Reviews, 2020, 14, 2000058.   | 4.4 | 27        |
| 53 | On-chip single-mode CdS nanowire laser. Light: Science and Applications, 2020, 9, 42.  | 7.7 | 45        |
| 54 | Thermally-Reconfigurable Silicon Photonic Devices and Circuits. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-20.                      | 1.9 | 36        |

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|----|---|-----|-----------|
| 55 | Ultra-Compact Broadband 2 Å– 2 3 dB Power Splitter Using a Subwavelength-Grating-Assisted Asymmetric Directional Coupler. Journal of Lightwave Technology, 2020, 38, 2370-2375.                   | 2.7 | 50        |
| 56 | High-performance silicon-graphene hybrid plasmonic waveguide photodetectors beyond 1.55 μm. Light: Science and Applications, 2020, 9, 29.   | 7.7 | 155       |
| 57 | Four-Channel CWDM (de)Multiplexers Using Cascaded Multimode Waveguide Gratings. IEEE Photonics Technology Letters, 2020, 32, 192-195.   | 1.3 | 33        |
| 58 | Ultra-Sharp Multimode Waveguide Bends with Dual Polarizations. Journal of Lightwave Technology, 2020, , 1-1.  | 2.7 | 14        |
| 59 | Broadband dual-mode 2 Å– 2 3 dB multimode interference couplers with a shallowly etched multimode section. Applied Optics, 2020, 59, 7308.  | 0.9 | 14        |
| 60 | Multichannel mode-selective silicon photonic add/drop multiplexer with phase change material. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3341.                       | 0.9 | 7         |
| 61 | Hybrid ultrathin-silicon/graphene waveguide photodetector with a loop mirror reflector. Optics Express, 2020, 28, 10725.  | 1.7 | 10        |
| 62 | Multimode silicon photonic waveguide corner-bend. Optics Express, 2020, 28, 9062.   | 1.7 | 34        |
| 63 | 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. | 1.7 | 41        |
| 64 | Ultra-broadband and Low-loss Polarization Beam Splitter on Silicon. , 2020, , .   |     | 2         |
| 65 | Ultra-broadband polarization beam splitter with silicon subwavelength-grating waveguides. Optics Letters, 2020, 45, 2259.   | 1.7 | 45        |
| 66 | Ultra-broadband on-chip multimode power splitter with an arbitrary splitting ratio. OSA Continuum, 2020, 3, 1212.   | 1.8 | 30        |
| 67 | Ultrahigh-Q silicon racetrack resonators. Photonics Research, 2020, 8, 684.   | 3.4 | 86        |
| 68 | Wavelength-selective 2 Å– 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.                                     | 3.4 | 58        |
| 69 | Hybrid silicon photonic devices with two-dimensional materials. Nanophotonics, 2020, 9, 2295-2314.  | 2.9 | 20        |
| 70 | New concept of silicon photonic MEMS switch based on total internal reflection. , 2020, , .   |     | 1         |
| 71 | Sub-nanosecond-speed frequency-reconfigurable photonic radio frequency switch using a silicon modulator. Photonics Research, 2020, 8, 852.  | 3.4 | 9         |
| 72 | Ultra-dense dual-polarization waveguide superlattices on silicon. Optics Express, 2020, 28, 26774.  | 1.7 | 4         |

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|----|--|-----|-----------|
| 73 | The first demonstration of high-speed LiNbO <sub>3</sub> thin-film optical modulators operating at the wavelength of 2 $\mu$ m. , 2020, , .  |     | 0         |
| 74 | Multimode silicon photonics. Nanophotonics, 2019, 8, 227-247.  | 2.9 | 203       |
| 75 | Silicon Subwavelength-Grating Microdisks for Optical Sensing. IEEE Photonics Technology Letters, 2019, 31, 1209-1212.  | 1.3 | 18        |
| 76 | Plasmonic Nanolasers: Pursuing Extreme Lasing Conditions on Nanoscale (Advanced Optical Materials 17/2019). Advanced Optical Materials, 2019, 7, 1970064.  | 3.6 | 3         |
| 77 | Ultra-sharp Multimode Waveguide Bends with Subwavelength Gratings. Laser and Photonics Reviews, 2019, 13, 1800119.   | 4.4 | 87        |
| 78 | Silicon Nanophotonics for Light Manipulation. , 2019, , .  |     | 0         |
| 79 | Low-loss photonic-like guided mode in metal-supported optical nanofibers. Applied Physics Letters, 2019, 114, 031104.  | 1.5 | 4         |
| 80 | High-speed and High-responsivity Hybrid Silicon/Black Phosphorus Waveguide Photodetectors at 2 $\mu$ m. Laser and Photonics Reviews, 2019, 13, 1900032.  | 4.4 | 91        |
| 81 | Ten-channel mode-division-multiplexed silicon photonic integrated circuit with sharp bends. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 498-506.   | 1.5 | 10        |
| 82 | Plasmonic Nanolasers: Pursuing Extreme Lasing Conditions on Nanoscale. Advanced Optical Materials, 2019, 7, 1900334.   | 3.6 | 36        |
| 83 | Metamaterial Polarization Beam Splitter: Ultra-broadband and Ultra-compact On-chip Silicon Polarization Beam Splitter by Using Hetero-anisotropic Metamaterials (Laser Photonics Rev. 13(4)/2019). Laser and Photonics Reviews, 2019, 13, 1970021. | 4.4 | 5         |
| 84 | Silicon Multimode Waveguide Grating Filter at 2 $\mu$ m. Journal of Lightwave Technology, 2019, 37, 2217-2222.   | 2.7 | 39        |
| 85 | Ultra-broadband and Ultra-compact On-chip Silicon Polarization Beam Splitter by Using Hetero-anisotropic Metamaterials. Laser and Photonics Reviews, 2019, 13, 1800349.  | 4.4 | 117       |
| 86 | Silicon/2D-materials Photonic Integrated Devices. , 2019, , .  |     | 0         |
| 87 | A novel polarization-insensitive optical filter on silicon. , 2019, , .  |     | 0         |
| 88 | Submicron-resonator-based add-drop optical filter with an ultra-large free spectral range. Optics Express, 2019, 27, 416.  | 1.7 | 43        |
| 89 | Silicon-based polarization-insensitive optical filter with dual-gratings. Optics Express, 2019, 27, 20704.   | 1.7 | 18        |
| 90 | On-chip simultaneous sensing of humidity and temperature with a dual-polarization silicon microring resonator. Optics Express, 2019, 27, 28649.  | 1.7 | 28        |

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|-----|--|------|-----------|
| 91  | Low-loss and low-crosstalk silicon triplexer based on cascaded multimode waveguide gratings. Optics Letters, 2019, 44, 1304.   | 1.7  | 27        |
| 92  | Anisotropic metamaterial-assisted all-silicon polarizer with 415-nm bandwidth. Photonics Research, 2019, 7, 1432.  | 3.4  | 49        |
| 93  | Silicon microring resonators. Journal of Optics (United Kingdom), 2018, 20, 054004.  | 1.0  | 20        |
| 94  | Silicon-Based Hybrid (de)Multiplexer for Wavelength-/Polarization-Division-Multiplexing. Journal of Lightwave Technology, 2018, 36, 2051-2058.                                 | 2.7  | 38        |
| 95  | 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. | 2.7  | 34        |
| 96  | 10-Channel Mode (de)multiplexer with Dual Polarizations. Laser and Photonics Reviews, 2018, 12, 1700109.   | 4.4  | 210       |
| 97  | Silicon photonic integrated devices for mode-division-multiplexing. , 2018, , .  |      | 0         |
| 98  | Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253.   | 13.7 | 1,555     |
| 99  | Silicon nanophotonics for on-chip light manipulation. Chinese Physics B, 2018, 27, 104208.   | 0.7  | 9         |
| 100 | A 32-Channel Hybrid Wavelength-/Mode-Division (de)Multiplexer on Silicon. IEEE Photonics Technology Letters, 2018, 30, 1194-1197.  | 1.3  | 24        |
| 101 | Low-loss and low-crosstalk multimode waveguide bend on silicon. Optics Express, 2018, 26, 17680.   | 1.7  | 107       |
| 102 | Polarization-insensitive 2-thermo-optic Mach-Zehnder switch on silicon. Optics Letters, 2018, 43, 2531.  | 1.7  | 51        |
| 103 | Silicon-based on-chip hybrid (de)multiplexers. Science China Information Sciences, 2018, 61, 1.  | 2.7  | 11        |
| 104 | Silicon-based hybrid demultiplexer for wavelength- and mode-division multiplexing. Optics Letters, 2018, 43, 1962.   | 1.7  | 53        |
| 105 | Silicon-graphene photonic devices. Journal of Semiconductors, 2018, 39, 061009.  | 2.0  | 12        |
| 106 | Advanced Passive Silicon Photonic Devices With Asymmetric Waveguide Structures. Proceedings of the IEEE, 2018, 106, 2117-2143.   | 16.4 | 67        |
| 107 | Silicon-based on-chip hybrid (de)multiplexers. , 2018, , .   |      | 2         |
| 108 | Reconfigurable photonic integrated circuits on silicon. , 2018, , .  |      | 1         |

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|-----|---|-----|-----------|
| 109 | Silicon photonic integrated devices for mode-/polarization-manipulations. , 2018, , .   |     | 0         |
| 110 | Silicon-plus photonics for light manipulation and photodetection. , 2018, , .   |     | 1         |
| 111 | Silicon Nanophotonic Integrated Devices for On-Chip Multiplexing and Switching. Journal of Lightwave Technology, 2017, 35, 572-587.   | 2.7 | 104       |
| 112 | Ultra-Broadband Polarization Splitter-Rotator Based on the Mode Evolution in a Dual-Core Adiabatic Taper. Journal of Lightwave Technology, 2017, 35, 2227-2233.                       | 2.7 | 42        |
| 113 | High-Performance Polarizing Beam Splitters Based on Cascaded Bent Directional Couplers. IEEE Photonics Technology Letters, 2017, 29, 474-477.   | 1.3 | 19        |
| 114 | Ultracompact on-chip photothermal power monitor based on silicon hybrid plasmonic waveguides. Nanophotonics, 2017, 6, 1121-1131.  | 2.9 | 11        |
| 115 | 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, . | 3.9 | 211       |
| 116 | Flexible integration of free-standing nanowires into silicon photonics. Nature Communications, 2017, 8, 20.   | 5.8 | 70        |
| 117 | Reconfigurable silicon photonics: devices and circuits. Proceedings of SPIE, 2017, , .  | 0.8 | 3         |
| 118 | A Laser-Trimming-Assist Wavelength-Alignment Technique for Silicon Microdonut Resonators. IEEE Photonics Technology Letters, 2017, 29, 419-422.                                       | 1.3 | 16        |
| 119 | Mode/Polarization Manipulation in Silicon Photonics. Journal of Physics: Conference Series, 2017, 844, 012039.  | 0.3 | 4         |
| 120 | Silicon-nanowire-based optical hybrid with insensitive operation for TE/TM states of polarization. Optics Communications, 2017, 385, 124-129.   | 1.0 | 2         |
| 121 | Polarization-selective microring resonators. Optics Express, 2017, 25, 4106.  | 1.7 | 23        |
| 122 | Ultra-broadband high-performance polarizing beam splitter on silicon. Optics Express, 2017, 25, 6069.   | 1.7 | 162       |
| 123 | Optical forces in silicon subwavelength-grating waveguides. Optics Express, 2017, 25, 30876.  | 1.7 | 9         |
| 124 | Low-loss and low-crosstalk multi-channel mode (de)multiplexer with ultrathin silicon waveguides. Optics Letters, 2017, 42, 2370.  | 1.7 | 49        |
| 125 | On-chip reconfigurable optical add-drop multiplexer for hybrid wavelength/mode-division-multiplexing systems. Optics Letters, 2017, 42, 2802.   | 1.7 | 66        |
| 126 | Silicon-graphene conductive photodetector with ultra-high responsivity. Scientific Reports, 2017, 7, 40904.   | 1.6 | 41        |



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|-----|---|-----|-----------|
| 127 | Microring-based 32-channel hybrid multiplexer for mode-/wavelength-division-multiplexing. , 2017, , .   |     | 1         |
| 128 | Silicon-based Reconfigurable Optical Add-Drop multiplexer for Hybrid MDM-WDM Systems. , 2017, , .   |     | 6         |
| 129 | Compact polarization beam splitter for silicon photonic integrated circuits with a 340-nm-thick silicon core layer. Optics Letters, 2017, 42, 4243. | 1.7 | 53        |
| 130 | Dual Functional WDM Devices for Multiplexing and De-multiplexing on Silicon-on-Insulator. , 2017, , .   |     | 1         |
| 131 | Highly-efficient Graphene-based Silicon Hybrid Plasmonic Waveguide Modulator. , 2017, , .   |     | 0         |
| 132 | Low-crosstalk and low-loss mode (de)multiplexer with 10 channels. , 2017, , .   |     | 1         |
| 133 | Silicon Photonic Waveguides and Devices with Structural Asymmetry. , 2017, , .  |     | 0         |
| 134 | Passive silicon photonic integrated devices and circuits. , 2016, , .   |     | 1         |
| 135 | Sensitivity Enhancement in Si Nanophotonic Waveguides Used for Refractive Index Sensing. Sensors, 2016, 16, 324.                                    | 2.1 | 16        |
| 136 | Monolithically integrated reconfigurable add-drop multiplexer for mode-division-multiplexing systems. Optics Letters, 2016, 41, 5298.               | 1.7 | 55        |
| 137 | All-optical graphene modulator based on optical Kerr phase shift. Optica, 2016, 3, 541.   | 4.8 | 164       |
| 138 | High extinctionâ€ratio compact polarisation beam splitter on silicon. Electronics Letters, 2016, 52, 1043-1045.                                     | 0.5 | 31        |
| 139 | Realization of a compact polarization splitter-rotator on silicon. Optics Letters, 2016, 41, 2346.  | 1.7 | 93        |
| 140 | Silicon-plus photonics. Frontiers of Optoelectronics, 2016, 9, 436-449.   | 1.9 | 8         |
| 141 | Asymmetric directional couplers based on silicon nanophotonic waveguides and applications. Frontiers of Optoelectronics, 2016, 9, 450-465.          | 1.9 | 28        |
| 142 | Multimode silicon photonics integrated devices. , 2016, , .   |     | 0         |
| 143 | Versatile asymmetric directional couplers on silicon. , 2016, , .   |     | 1         |
| 144 | Compact Eight-Channel Thermally Reconfigurable Optical Add/Drop Multiplexers on Silicon. IEEE Photonics Technology Letters, 2016, 28, 1874-1877.    | 1.3 | 39        |

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|-----|--|-----|-----------|
| 145 | Photonic Integration Circuits in China. IEEE Journal of Quantum Electronics, 2016, 52, 1-17.   | 1.0 | 6         |
| 146 | Cascaded Ring-Resonators for Multi-Channel Optical Sensing With Reduced Temperature Sensitivity. IEEE Photonics Technology Letters, 2016, 28, 814-817.   | 1.3 | 7         |
| 147 | Low-loss and broadband 2 $\times$ 2 silicon thermo-optic Mach-Zehnder switch with bent directional couplers. Optics Letters, 2016, 41, 836.  | 1.7 | 159       |
| 148 | Thermally tunable silicon photonic microdisk resonator with transparent graphene nanoheaters. Optica, 2016, 3, 159.  | 4.8 | 131       |
| 149 | Variable optical attenuator based on a reflective Mach-Zehnder interferometer. Optics Communications, 2016, 361, 55-58.  | 1.0 | 22        |
| 150 | Novel High-Performance Polarization Beam Splitter on Silicon. , 2016, , .  |     | 4         |
| 151 | Novel compact polarization splitter-rotator on silicon. , 2016, , .  |     | 0         |
| 152 | First demonstration of a reconfigurable optical add-drop multiplexer on silicon for mode-division-multiplexed systems. , 2016, , .   |     | 0         |
| 153 | Multi-channel wavelength/mode-division-multiplexers on silicon. , 2016, , .  |     | 2         |
| 154 | Mode converter based on an inverse taper for multimode silicon nanophotonic integrated circuits. Optics Express, 2015, 23, 28376.  | 1.7 | 52        |
| 155 | Mode hybridization and conversion in silicon-on-insulator nanowires with angled sidewalls. Optics Express, 2015, 23, 32452.  | 1.7 | 48        |
| 156 | Monolithically integrated 64-channel silicon hybrid demultiplexer enabling simultaneous wavelength- and mode-division-multiplexing. Laser and Photonics Reviews, 2015, 9, 339-344.                         | 4.4 | 122       |
| 157 | Utilization of Field Enhancement in Plasmonic Waveguides for Subwavelength Light-Guiding, Polarization Handling, Heating, and Optical Sensing. Materials, 2015, 8, 6772-6791.                              | 1.3 | 27        |
| 158 | Double-Slot Hybrid Plasmonic Ring Resonator Used for Optical Sensors and Modulators. Photonics, 2015, 2, 1116-1130.  | 0.9 | 51        |
| 159 | Introduction for the Integrated Photonics: Challenges and Perspectives feature. Photonics Research, 2015, 3, IP1.  | 3.4 | 7         |
| 160 | Experimental demonstration of simultaneous mode and polarization-division multiplexing based on silicon densely packed waveguide array. Optics Letters, 2015, 40, 4655.                                    | 1.7 | 41        |
| 161 | Silicon nanophotonic integrated devices for networks-on-chip: Multiplexing and switching. , 2015, , .  |     | 1         |
| 162 | Compact Dense Wavelength-Division (De)multiplexer Utilizing a Bidirectional Arrayed-Waveguide Grating Integrated With a Mach-Zehnder Interferometer. Journal of Lightwave Technology, 2015, 33, 2279-2285. | 2.7 | 53        |

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|-----|--|-----|-----------|
| 163 | Compact monolithically-integrated hybrid (de)multiplexer based on silicon-on-insulator nanowires for PDM-WDM systems. Optics Express, 2015, 23, 12840.                 | 1.7 | 51        |
| 164 | High-sensitivity liquid refractive-index sensor based on a Mach-Zehnder interferometer with a double-slot hybrid plasmonic waveguide. Optics Express, 2015, 23, 25688. | 1.7 | 106       |
| 165 | Silicon hybrid wavelength/mode-division-demultiplexer with 64 channels for on-chip optical interconnects. , 2015, , .  |     | 4         |
| 166 | Silicon nanophotonic integrated devices enabling multiplexed on-chip optical interconnects. , 2015, , .  |     | 1         |
| 167 | Utilization of thermal effects for silicon photonics. , 2015, , .  |     | 1         |
| 168 | Multi-functional silicon photonic integrated circuits with ultra-compact arrayed-waveguide gratings (Invited). , 2015, , .   |     | 0         |
| 169 | Silicon photonic integrated devices for multi-channel multiplexed on-chip optical interconnects. , 2015, , .   |     | 0         |
| 170 | Silicon mode (de)multiplexer based on densely packed waveguide array (DPWA). , 2015, , .   |     | 0         |
| 171 | High-order microring resonators with bent couplers for a box-like filter response. Optics Letters, 2014, 39, 6304.   | 1.7 | 92        |
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