

# Hui Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,337  
citations

535685

17  
h-index

388640

36  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1188  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Multi-Line Selective Optical Phased Array With Improved Uniformity of Radiated Beam Patterns. IEEE Photonics Technology Letters, 2022, 34, 133-136.                                 | 1.3 | 1         |
| 2  | Comparison of Silicon Lattice-Filter-Based O-Band 1 $\mu$ m–8 (De)Multiplexers With Flat and Gaussian-Like Passbands. IEEE Photonics Journal, 2022, 14, 1-5.                        | 1.0 | 5         |
| 3  | High-Speed and Low-Power Silicon Optical Phased Array Based on the Carrier-Depletion Mechanism. IEEE Photonics Technology Letters, 2022, 34, 271-274.                               | 1.3 | 11        |
| 4  | Silicon-Based MZI-Embedded Microring Array With Hitless and FSR-Alignment-Free Wavelength Selection. IEEE Photonics Technology Letters, 2022, 34, 436-439.                          | 1.3 | 1         |
| 5  | Ultra-compact silicon mode (de)multiplexer based on directional couplers with subwavelength sidewall corrugations. Optics Letters, 2022, 47, 2198.                                  | 1.7 | 9         |
| 6  | Wavelet convolutional neural network for robust and fast temperature measurements in Brillouin optical time domain reflectometry. Optics Express, 2022, 30, 13942.                  | 1.7 | 8         |
| 7  | High linearity silicon DC Kerr modulator enhanced by slow light for 112 Gbit/s PAM4 over 2 km single mode fiber transmission. Optics Express, 2022, 30, 16996.                      | 1.7 | 9         |
| 8  | Ultracompact Channel Add-Drop Filter Based on Single Multimode Nanobeam Photonic Crystal Cavity. Journal of Lightwave Technology, 2021, 39, 162-166.                                | 2.7 | 12        |
| 9  | Silicon Mode (de)Multiplexer Based on Cascaded Particle-Swarm-Optimized Counter-Tapered Couplers. IEEE Photonics Journal, 2021, 13, 1-10.   | 1.0 | 3         |
| 10 | Thermally enhanced responsivity in an all-silicon optical power monitor based on defect-mediated absorption. Photonics Research, 2021, 9, 2205.                                     | 3.4 | 4         |
| 11 | Flat-Top, Sharp-Edge Add-Drop Filters Using Complementary-Misalignment-Modulated Grating-Assisted Contradirectional Couplers. Journal of Lightwave Technology, 2021, 39, 5896-5901. | 2.7 | 8         |
| 12 | Compact and Low-Insertion-Loss 1 $\mu$ m–N Power Splitter in Silicon Photonics. Journal of Lightwave Technology, 2021, 39, 6253-6259.   | 2.7 | 20        |
| 13 | Polarization-independent fiber-chip grating couplers optimized by the adaptive genetic algorithm. Optics Letters, 2021, 46, 314.  | 1.7 | 13        |
| 14 | High-Power and High-Speed Traveling-Wave Photodetectors with Genetic Algorithm Optimization. , 2021, , .  |     | 0         |
| 15 | An Ultra-Compact 4 $\mu$ m–4 and 8 $\mu$ m–8 Optical Switch Based on Dual-Microring Resonators. IEEE Photonics Technology Letters, 2020, 32, 1365-1368.                             | 1.3 | 8         |
| 16 | A Silicon Optical Single Sideband Modulator With Ultra-High Sideband Suppression Ratio. IEEE Photonics Technology Letters, 2020, 32, 963-966.                                       | 1.3 | 9         |
| 17 | Spectral-Distortionless, Flat-Top, Drop-Filter Based on Complementarily-Misaligned Multimode-Waveguide Bragg Gratings. Journal of Lightwave Technology, 2020, 38, 6600-6604.        | 2.7 | 5         |
| 18 | Hitless Wavelength-Selective Switch Using a Single Microring Resonator Assisted With a Symmetric MZI. IEEE Photonics Technology Letters, 2020, 32, 402-405.                         | 1.3 | 2         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. IEEE Photonics Journal, 2020, 12, 1-10.   | 1.0 | 3         |
| 20 | Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics. IEEE Photonics Journal, 2020, 12, 1-10.                                     | 1.0 | 2         |
| 21 | Silicon-based flexible-grid mode- and wavelength-selective switch utilizing microring resonators and Y-junctions. Journal of Lightwave Technology, 2020, , 1-1.     | 2.7 | 3         |
| 22 | Ultra-compact and low-loss silicon polarization beam splitter using a particle-swarm-optimized counter-tapered coupler. Optics Express, 2020, 28, 30701.            | 1.7 | 26        |
| 23 | High linearity silicon modulator capable of actively compensating input distortion. Optics Letters, 2020, 45, 3785.   | 1.7 | 12        |
| 24 | A high linear silicon Mach-Zehnder modulator by the dual-series architecture. , 2020, , .   |     | 0         |
| 25 | Hitless and gridless reconfigurable optical add drop (de)multiplexer based on looped waveguide sidewall Bragg gratings on silicon. Optics Express, 2020, 28, 14461. | 1.7 | 9         |
| 26 | Compact and low-loss 1 Å– 3 polarization-insensitive optical power splitter using cascaded tapered silicon waveguides. Optics Letters, 2020, 45, 5596.              | 1.7 | 8         |
| 27 | Narrow-Band Add-Drop Filter Based on Cladding-Modulated Apodized Multimode Bragg Grating. Journal of Lightwave Technology, 2019, 37, 5542-5547.                     | 2.7 | 12        |
| 28 | A Four-Channel DWDM Tunable Add/Drop Demultiplexer Based on Silicon Waveguide Bragg Gratings. IEEE Photonics Journal, 2019, 11, 1-8.                                | 1.0 | 26        |
| 29 | Scalable Nonblocking $4 \times 4$ Silicon Optical Switch Based on Dual-Microring Resonators. IEEE Photonics Technology Letters, 2019, 31, 397-400.                  | 1.3 | 4         |
| 30 | Ultracompact add-drop filters based on single nanobeam cavity. , 2019, , .  |     | 1         |
| 31 | Twin-Fano resonator with widely tunable slope for ultra-high-resolution wavelength monitor. Optics Letters, 2019, 44, 4527.   | 1.7 | 7         |
| 32 | Silicon dual-series Mach-Zehnder modulator with high linearity. Optics Letters, 2019, 44, 5655.   | 1.7 | 9         |
| 33 | High-power traveling-wave photodetector based on an aperiodically loaded open-circuit electrode. Optics Letters, 2019, 44, 5582.                                    | 1.7 | 8         |
| 34 | 10-Channel Mode (de)multiplexer with Dual Polarizations. Laser and Photonics Reviews, 2018, 12, 1700109.  | 4.4 | 210       |
| 35 | High-Q antisymmetric multimode nanobeam photonic crystal cavities in silicon waveguides. Optics Express, 2018, 26, 26196.   | 1.7 | 13        |
| 36 | Broadband tunable filter based on the loop of multimode Bragg grating. Optics Express, 2018, 26, 559.   | 1.7 | 30        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Narrow-Band Add-Drop Filter Based on Phase-Modulated Grating-Assisted Contra-Directional Couplers. <i>Journal of Lightwave Technology</i> , 2018, 36, 3760-3764.                      | 2.7 | 26        |
| 38 | Linearity Comparison of Silicon Carrier-Depletion-Based Single, Dual-Parallel, and Dual-Series Mach-Zehnder Modulators. <i>Journal of Lightwave Technology</i> , 2018, 36, 3318-3331. | 2.7 | 22        |
| 39 | A Silicon Aperiodically Distributed Traveling-Wave Photodetector With Enhanced RF Output Power. <i>Journal of Lightwave Technology</i> , 2018, 36, 3152-3161.                         | 2.7 | 11        |
| 40 | Slope tunable Fano resonances in asymmetric embedded microring resonators. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 025803.  | 1.0 | 14        |
| 41 | Silicon Add-Drop Filter Based on Multimode Bragg Sidewall Gratings and Adiabatic Couplers. <i>Journal of Lightwave Technology</i> , 2017, 35, 1705-1709.                              | 2.7 | 35        |
| 42 | Silicon lateral-apodized add-drop filter for on-chip optical interconnection. <i>Applied Optics</i> , 2017, 56, 8425.   | 0.9 | 43        |
| 43 | Broad bandwidth and large fabrication tolerance polarization beam splitter based on multimode anti-symmetric Bragg sidewall gratings. <i>Optics Letters</i> , 2017, 42, 3912.         | 1.7 | 34        |
| 44 | Silicon band-rejection and band-pass filter based on asymmetric Bragg sidewall gratings in a multimode waveguide. <i>Optics Letters</i> , 2016, 41, 2450.                             | 1.7 | 59        |
| 45 | High-Q and high-order side-coupled air-mode nanobeam photonic crystal cavities in silicon. <i>IEEE Photonics Technology Letters</i> , 2016, , 1-1.                                    | 1.3 | 7         |
| 46 | A tunable silicon ring reflector. <i>Journal of Optics (India)</i> , 2015, 44, 26-29.   | 0.8 | 1         |
| 47 | Trade-off between optical modulation amplitude and modulation bandwidth of silicon micro-ring modulators. <i>Optics Express</i> , 2014, 22, 15178.                                    | 1.7 | 62        |
| 48 | Tunable Fano resonances based on two-beam interference in microring resonator. <i>Applied Physics Letters</i> , 2013, 102, .  | 1.5 | 63        |
| 49 | Silicon mode multi/demultiplexer based on multimode grating-assisted couplers. <i>Optics Express</i> , 2013, 21, 17904.   | 1.7 | 159       |
| 50 | FSR-free add-drop filter based on silicon grating-assisted contradirectional couplers. <i>Optics Letters</i> , 2013, 38, 1.   | 1.7 | 58        |
| 51 | Fano resonances in ultracompact waveguide Fabry-Perot resonator side-coupled lossy nanobeam cavities. <i>Applied Physics Letters</i> , 2013, 103, .                                   | 1.5 | 39        |
| 52 | An Equivalent Circuit Model of the Traveling Wave Electrode for Carrier-Depletion-Based Silicon Optical Modulators. <i>Journal of Lightwave Technology</i> , 2012, 30, 1602-1609.     | 2.7 | 140       |
| 53 | Wavelength-selective 4×4 nonblocking silicon optical router for networks-on-chip. <i>Optics Letters</i> , 2011, 36, 4710.   | 1.7 | 53        |