

Yin Xu

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Broadband and high extinction ratio TE-pass/TM-stop polarizer at 850 nm using chirped subwavelength gratings. <i>Applied Optics</i> , 2022, 61, 580. | 0.9 | 2 |
| 2 | Integrated TM-through/TE-converted polarization beam splitter based on z-cut lithium niobate-on-insulator platform. <i>Optik</i> , 2022, 255, 168690. | 1.4 | 7 |
| 3 | Scalable silicon-based mode-order converters assisted by tapered metal strip layer. <i>Optics and Laser Technology</i> , 2022, 151, 108028. | 2.2 | 5 |
| 4 | Thin-Film Lithium Niobate Based Acousto-Optic Modulation Working at Higher-Order TE ₁ Mode. <i>Photonics</i> , 2022, 9, 12. | 0.9 | 1 |
| 5 | Ultra-Broadband and Low-Loss Silicon-Based Power Splitter Based on Subwavelength Grating-Assisted Multimode Interference Structure. <i>Photonics</i> , 2022, 9, 435. | 0.9 | 2 |
| 6 | Silicon-Based TM ₀ -to-TM ₃ Mode-Order Converter Using On-Chip Shallowly Etched Slot Metasurface. <i>Photonics</i> , 2021, 8, 95. | 0.9 | 4 |
| 7 | On-Chip Beam Splitting Strategies Based on SWG Assisted Directional Coupler for 850 nm Optical Coherence Tomography - A Numerical Study. <i>IEEE Photonics Journal</i> , 2021, 13, 1-12. | 1.0 | 5 |
| 8 | High-performance room temperature NO ₂ gas sensor based on visible light irradiated In ₂ O ₃ nanowires. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159076. | 2.8 | 74 |
| 9 | Etched circular waveguide-based on-chip silicon mode-order converters. <i>Applied Optics</i> , 2021, 60, 6422. | 0.9 | 1 |
| 10 | Efficient silicon-based higher-order mode converters based on subwavelength grating slots. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2908. | 0.9 | 4 |
| 11 | Metal plasmonic assisted silicon-based TE ₀ -to-TM ₁ mode-order converter with 3.5 μm length. <i>Optics and Laser Technology</i> , 2021, 142, 107251. | 2.2 | 3 |
| 12 | Highly-Efficient, Ultra-Compact and Polarization-Insensitive Electro-Absorption Modulator Driven by Hybrid Silicon-Indium Tin Oxide-Based MOS Capacitors. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-9. | 1.0 | 5 |
| 13 | A compact silicon-based TM ₀ -to-TM ₂ mode-order converter using shallowly-etched slots. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 015802. | 1.0 | 6 |
| 14 | Broadband and high-extinction-ratio polarization beam splitter on tilted subwavelength gratings waveguides. <i>Applied Optics</i> , 2020, 59, 7705. | 0.9 | 8 |
| 15 | On-chip silicon shallowly etched TM ₀ -to-TM ₁ mode-order converter with high conversion efficiency and low modal crosstalk. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1290. | 0.9 | 10 |
| 16 | Ultra-High Modulation Efficiency and Polarization-Insensitive Cadmium Oxide-Silicon Based Electro-Absorption Modulator. , 2019, , . | | 0 |
| 17 | Hybrid Graphene-Silicon Based Polarization-Insensitive Electro-Absorption Modulator with High-Modulation Efficiency and Ultra-Broad Bandwidth. <i>Nanomaterials</i> , 2019, 9, 157. | 1.9 | 22 |
| 18 | Design of a compact silicon-based TM-polarized mode-order converter based on shallowly etched structures. <i>Applied Optics</i> , 2019, 58, 9075. | 0.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Spectral Compression of Mid-infrared Pulse in a Suspended Silicon Waveguide Taper. , 2018, , . | | 0 |
| 20 | Design of a graphene-based dual-slot hybrid plasmonic electro-absorption modulator with high-modulation efficiency and broad optical bandwidth for on-chip communication. Applied Optics, 2018, 57, 3260. | 0.9 | 14 |
| 21 | Highly-efficient, ultra-broadband and polarization insensitive graphene-silicon based electro-absorption modulator. , 2018, , . | | 0 |
| 22 | Design of matrix-diagonal allocator for efficient network-on-chip routers. , 2017, , . | | 2 |
| 23 | Mid-infrared self-similar compression of picosecond pulse in an inversely tapered silicon ridge waveguide. Optics Express, 2017, 25, 33439. | 1.7 | 20 |
| 24 | Broadband spectral compression assisted by soliton self-frequency shift in a chalcogenide strip waveguide. , 2017, , . | | 0 |
| 25 | Ultracompact and Broadband Silicon-Based Strip-to-Slot Mode Converter. IEEE Photonics Technology Letters, 2016, 28, 1414-1417. | 1.3 | 8 |
| 26 | Design and numerical study of a compact, broadband and low-loss TE-pass polarizer using transparent conducting oxides. Optics Express, 2016, 24, 15373. | 1.7 | 26 |
| 27 | Ultracompact and high efficient silicon-based polarization splitter-rotator using a partially-etched subwavelength grating coupler. Scientific Reports, 2016, 6, 27949. | 1.6 | 32 |
| 28 | Design of a compact and integrated TM-rotated/TE-through polarization beam splitter for silicon-based slot waveguides. Applied Optics, 2016, 55, 611. | 2.1 | 20 |
| 29 | Compact and high extinction ratio polarization beam splitter using subwavelength grating couplers. Optics Letters, 2016, 41, 773. | 1.7 | 86 |
| 30 | An Ultracompact Polarization-Insensitive Silicon-Based Strip-to-Slot Power Splitter. IEEE Photonics Technology Letters, 2016, 28, 536-539. | 1.3 | 13 |
| 31 | Proposal for Compact Polarization Splitter Using Asymmetrical Three-Guide Directional Coupler. IEEE Photonics Technology Letters, 2015, 27, 654-657. | 1.3 | 20 |
| 32 | Proposal for a compact silicon microring resonator-based polarization demultiplexer. Journal of Nanophotonics, 2015, 9, 093055. | 0.4 | 3 |
| 33 | Compact polarization beam splitter for silicon-based slot waveguides based on an asymmetrical multimode interference coupler. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 34 | A Compact TE-Pass Polarizer for Silicon-Based Slot Waveguides. IEEE Photonics Technology Letters, 2015, 27, 2071-2074. | 1.3 | 32 |
| 35 | Compact silicon hybrid plasmonic microring resonator-based polarization demultiplexer. Japanese Journal of Applied Physics, 2015, 54, 082201. | 0.8 | 3 |
| 36 | Compact Polarization Beam Splitter for Silicon-Based Slot Waveguides Using an Asymmetrical Multimode Waveguide. Journal of Lightwave Technology, 2014, 32, 4884-4890. | 2.7 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Reply to Comment on "Design of a compact silicon-based slot-waveguide crossing composed of an orthogonal strip multimode waveguide and four logarithmical mode converters" TM . Journal Physics D: Applied Physics, 2014, 47, 148002. | 1.3 | 0 |
| 38 | Design of a compact polarization demultiplexer for silicon-based slot waveguides. Applied Optics, 2014, 53, 8305. | 2.1 | 12 |
| 39 | Compact polarization rotator for silicon-based slot waveguide structures. Applied Optics, 2014, 53, 2390. | 0.9 | 20 |
| 40 | A Compact Hybrid Plasmonic Polarization Rotator for Silicon-Based Slot Waveguides. IEEE Photonics Technology Letters, 2014, 26, 1609-1612. | 1.3 | 35 |
| 41 | A compact polarization converter for silicon-based slot waveguides using a hybrid plasmonic effect. Journal of Optics (United Kingdom), 2014, 16, 085502. | 1.0 | 1 |
| 42 | Design of a compact polarization rotator for silicon-based slot waveguides. , 2014, , . | | 0 |
| 43 | A downlink pre-coding scheme for multi-user distributed MIMO system with antenna selection. , 2013, , . | | 1 |
| 44 | Design of a compact silicon-based slot-waveguide crossing composed of an orthogonal strip multimode waveguide and four logarithmical mode converters. Journal Physics D: Applied Physics, 2013, 46, 455102. | 1.3 | 7 |
| 45 | Design of a compact silicon-based slot-waveguide crossing. Applied Optics, 2013, 52, 3737. | 0.9 | 20 |
| 46 | Design of a compact crossing for silicon-based slot and strip waveguides. Optical Engineering, 2013, 52, 087105. | 0.5 | 1 |
| 47 | Characterization of a compact silicon-based slot-to-strip waveguide crossing. Journal of Modern Optics, 2013, 60, 1981-1991. | 0.6 | 1 |