Li Shen

List of Publications by Year in descending order

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LI SHEN

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High-speed detection at two micrometres with monolithic silicon photodiodes. Nature Photonics, 2015, 9, 393-396. | 31.4 | 192 |
| 2 | Silicon-Based Photonic Integration Beyond the Telecommunication Wavelength Range. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 394-404. | 2.9 | 106 |
| 3 | Mid-infrared all-optical modulation in low-loss germanium-on-silicon waveguides. Optics Letters, 2015, 40, 268. | 3.3 | 74 |
| 4 | Demonstration of 20-Gbit/s high-speed Bessel beam encoding/decoding link with adaptive turbulence compensation. Optics Letters, 2016, 41, 4680. | 3.3 | 66 |
| 5 | Silicon-based heterogeneous photonic integrated circuits for the mid-infrared. Optical Materials Express, 2013, 3, 1523. | 3.0 | 65 |
| 6 | Silicon-based four-mode division multiplexing for chip-scale optical data transmission in the 2  μm waveband. Photonics Research, 2019, 7, 1030. | 7.0 | 54 |
| 7 | Tapered polysilicon core fibers for nonlinear photonics. Optics Letters, 2016, 41, 1360. | 3.3 | 51 |
| 8 | Enhanced all-optical modulation in a graphene-coated fibre with low insertion loss. Scientific Reports, 2016, 6, 23512. | 3.3 | 43 |
| 9 | Subwavelength grating slot (SWGS) waveguide on silicon platform. Optics Express, 2017, 25, 18250. | 3.4 | 39 |
| 10 | Compact tunable electromagnetically induced transparency and Fano resonance on silicon platform. Optics Express, 2017, 25, 25655. | 3.4 | 36 |
| 11 | Low-loss silicon core fibre platform for mid-infrared nonlinear photonics. Light: Science and Applications, 2019, 8, 105. | 16.6 | 36 |
| 12 | Wavelength Conversion and Supercontinuum Generation in Silicon Optical Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9. | 2.9 | 35 |
| 13 | Crystalline Silicon Optical Fibers with Low Optical Loss. ACS Photonics, 2016, 3, 378-384. | 6.6 | 34 |
| 14 | Two-photon absorption and all-optical modulation in germanium-on-silicon waveguides for the mid-infrared. Optics Letters, 2015, 40, 2213. | 3.3 | 27 |
| 15 | Graphene-Based Fiber Polarizer With PVB-Enhanced Light Interaction. Journal of Lightwave Technology, 2016, 34, 3563-3567. | 4.6 | 25 |
| 16 | Reconfigurable and tunable compact comb filter and (de)interleaver on silicon platform. Optics Express, 2018, 26, 4358. | 3.4 | 22 |
| 17 | Four-Wave Mixing-Based Wavelength Conversion and Parametric Amplification in Submicron Silicon Core Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11. | 2.9 | 22 |
| 18 | All-fibre heterogeneously-integrated frequency comb generation using silicon core fibre. Nature Communications, 2022, 13, . | 12.8 | 21 |

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| # | Article | IF | CITATIONS |
|----|--|---------------|---------------|
| 19 | Compact tunable photonic comb filter on a silicon platform. Optics Letters, 2017, 42, 2762. | 3.3 | 20 |
| 20 | Net optical parametric gain in a submicron silicon core fiber pumped in the telecom band. APL Photonics, 2019, 4, . | 5.7 | 20 |
| 21 | Silicon photonic flat-top WDM (de)multiplexer based on cascaded Mach-Zehnder interferometers for the 2 µm wavelength band. Optics Express, 2022, 30, 28232. | 3.4 | 18 |
| 22 | Channel-selective wavelength conversion of quadrature amplitude modulation signal using a graphene-assisted silicon microring resonator. Optics Letters, 2017, 42, 799. | 3.3 | 17 |
| 23 | Continuous-wave Raman amplification in silicon core fibers pumped in the telecom band. APL Photonics, 2021, 6, . | 5.7 | 16 |
| 24 | Subwavelength grating slot (SWGS) waveguide at 2 μm for chip-scale data transmission. Nanophotonics, 2018, 7, 865-871. | 6.0 | 15 |
| 25 | Yb-fiber amplifier pumped idler-resonant PPLN optical parametric oscillator producing 90 femtosecond pulses with high beam quality. Applied Physics B: Lasers and Optics, 2014, 117, 987-993. | 2.2 | 13 |
| 26 | Generating structured light with phase helix and intensity helix using reflection-enhanced plasmonic metasurface at 2 <i>$1^{1}/4$ </i> m. Applied Physics Letters, 2018, 112, . | 3.3 | 12 |
| 27 | Wideband and continuously-tunable fractional photonic Hilbert transformer based on a single high-birefringence planar Bragg grating. Optics Express, 2018, 26, 20450. | 3.4 | 12 |
| 28 | Generation of Orbital Angular Momentum Beam Using Fiber-to-Fiber Butt Coupling. IEEE Photonics Journal, 2018, 10, 1-7. | 2.0 | 11 |
| 29 | High-Performance Silicon 2Â×Â2 Thermo-Optic Switch for the 2-\$mu\$m Wavelength Band. IEEE Photonics Journal, 2019, 11, 1-6. | 2.0 | 11 |
| 30 | Fiber Integrated Wavelength Converter Based on a Silicon Core Fiber With a Nano-Spike Coupler. IEEE Photonics Technology Letters, 2019, 31, 1561-1564. | 2.5 | 10 |
| 31 | A review of nonlinear applications in silicon optical fibers from telecom wavelengths into the mid-infrared spectral region. Optics Communications, 2020, 463, 125437. | 2.1 | 10 |
| 32 | Raman enhanced four-wave mixing in silicon core fibers. Optics Letters, 2022, 47, 1626. | 3.3 | 10 |
| 33 | Demonstration of Orbital Angular Momentum (OAM) Fiber Amplifier in Data-Carrying OAM-Division Multiplexing and Wavelength-Division Multiplexing (WDM) System. , 2017, , . | | 3 |
| 34 | Experimental demonstration of 2-μm on-chip two-mode division multiplexing using tapered directional coupler-based mode (de)multiplexer. , 2018, , . | | 3 |
| 35 | Mid-IR heterogeneous silicon photonics. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 36 | Generation of optical vortices using asymmetrically spliced fibers. Journal of Optics (United) Tj ETQq0 0 0 rgB | [/Overlock] | 10 Tf 50 62 T |

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|----|---|----|-----------|
| 37 | Demonstration of on-chip 640-Gbit/s throughput, granularity-flexible programmable optical filtering and reconfigurable optical add/drop multiplexing on silicon platform. , 2018, , . | | 2 |
| 38 | Graphene-assisted multiple-input high-base optical computing. , 2016, , . | | 1 |
| 39 | Semiconductor optical fibers for nonlinear applications. , 2016, , . | | 1 |
| 40 | Experimental demonstration of broadband generation of optical vortices using asymmetrically spliced fibers. , 2018, , . | | 1 |
| 41 | Functionalized optical fibers for non-linear optics. , 2016, , . | | 1 |
| 42 | Demonstration of on-chip tunable Fano resonance based on interference between microring resonator and Fabry-Perot cavity. , 2017, , . | | 1 |
| 43 | Experimental demonstation of wavelength- and bandwidth-tunable compact integrated silicon photonic comb filter. , 2017, , . | | 0 |
| 44 | Asymmetric optical mode conversion by quasi PT-symmetric waveguide structure. , 2017, , . | | 0 |
| 45 | Stimulated Raman Scattering in a Tapered Submicron Silicon Core Fiber. , 2021, , . | | 0 |
| 46 | Design of compact orbital angular momentum (OAM) beams generator on an integrated silicon platform. , 2016, , . | | 0 |
| 47 | Experimental Demonstration of 20-Gbit/s Data Transmission Link using a 1.1 km Elliptical-Core Few-Mode Fiber assisted by Mapping from Conventional Amplitude Modulation to Spatial Mode Modulation. , 2017, , . | | 0 |
| 48 | Experimental demonstration of silicon strip and slot waveguides for 2 μm chip-scale optical data transmission. , 2017, , . | | 0 |
| 49 | Demonstration of Hybrid Orbital Angular Momentum (OAM) and Gaussian Mode Encoding/Decoding for 10-Gbit/s Data Transmission through a 2.6-km Conventional Graded-Index Multimode (OM3) Fiber. , 2017, , . | | 0 |
| 50 | Raman Enhanced Four-Wave Mixing in Silicon Core Fibers. , 2021, , . | | 0 |