

Huihui Lu

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

2,216
citations

201674

27
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276875

41
g-index

128
all docs

128
docs citations

128
times ranked

1916
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Side Polished Fiber: A Versatile Platform for Compact Fiber Devices and Sensors. <i>Photonic Sensors</i> , 2023, 13, . | 5.0 | 12 |
| 2 | Wavefront shaping for reconfigurable beam steering in lithium niobate multimode waveguide. <i>Optics Letters</i> , 2022, 47, 329. | 3.3 | 2 |
| 3 | Design of High-Speed Mid-Infrared Electro-Optic Modulator Based on Thin Film Lithium Niobate. <i>IEEE Photonics Journal</i> , 2022, 14, 1-6. | 2.0 | 4 |
| 4 | SnSe-Coated Microfiber Resonator for All-Optical Modulation. <i>Nanomaterials</i> , 2022, 12, 694. | 4.1 | 1 |
| 5 | Ultrafast Microfiber Humidity Sensor Based on Three Dimensional Molybdenum Disulfide Network Cladding. <i>Frontiers in Physics</i> , 2022, 10, . | 2.1 | 0 |
| 6 | Gold Enhanced Graphene-Based Photodetector on Optical Fiber with Ultrasensitivity over Near-Infrared Bands. <i>Nanomaterials</i> , 2022, 12, 124. | 4.1 | 4 |
| 7 | Correction to "Broadband Light Amplitude Tuning Characteristics of SnSe ₂ Coated Microfiber" [Nov 20 6089-6096]. <i>Journal of Lightwave Technology</i> , 2022, 40, 4058-4058. | 4.6 | 0 |
| 8 | Electric Field Sensor Based on High Q Fano Resonance of Nano-Patterned Electro-Optic Materials. <i>Photonics</i> , 2022, 9, 431. | 2.0 | 3 |
| 9 | Turn-On Circularly Polarized Luminescence in Metal-Organic Frameworks. <i>Advanced Optical Materials</i> , 2021, 9, 2002096. | 7.3 | 36 |
| 10 | Plasmonic Helical Nanoantenna As a Converter between Longitudinal Fields and Circularly Polarized Waves. <i>Nano Letters</i> , 2021, 21, 3410-3417. | 9.1 | 16 |
| 11 | Highly efficient second harmonic generation of thin film lithium niobate nanograting near bound states in the continuum. <i>Nanotechnology</i> , 2021, 32, 325207. | 2.6 | 51 |
| 12 | Tin Disulfide-Coated Microfiber for Humidity Sensing with Fast Response and High Sensitivity. <i>Crystals</i> , 2021, 11, 648. | 2.2 | 2 |
| 13 | Recent progress of second harmonic generation based on thin film lithium niobate [Invited]. <i>Chinese Optics Letters</i> , 2021, 19, 060012. | 2.9 | 21 |
| 14 | Resonance-enhanced all-optical modulation of WSe ₂ -based micro-resonator. <i>Nanophotonics</i> , 2020, 9, 2387-2396. | 6.0 | 17 |
| 15 | Optical fiber bio-sensor for phospholipase using liquid crystal. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112547. | 10.1 | 18 |
| 16 | High Light Tuning Efficiency in All Optical In ₂ Se ₃ Coated Micro Knot Resonator Structure. <i>IEEE Access</i> , 2020, 8, 190009-190016. | 4.2 | 1 |
| 17 | High-sensitivity fiber-optic humidity sensor based on microfiber overlaid with niobium disulfide. <i>Journal of Materials Science</i> , 2020, 55, 16576-16587. | 3.7 | 12 |
| 18 | An Optical Switch Based on Electro-Optic Mode Deflection in Lithium Niobate Waveguide. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1295-1298. | 2.5 | 22 |

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|----|--|------|-----------|
| 19 | Broadband Light Amplitude Tuning Characteristics of SnSe ₂ Coated Microfiber. Journal of Lightwave Technology, 2020, 38, 6089-6096. | 4.6 | 4 |
| 20 | Hybrid plasmonic-phononic cavity design for enhanced optomechanical coupling in lithium niobate. Applied Nanoscience (Switzerland), 2020, 10, 1395-1407. | 3.1 | 3 |
| 21 | Ultrafast freestanding microfiber humidity sensor based on three-dimensional graphene network cladding. Optics Express, 2020, 28, 4362. | 3.4 | 9 |
| 22 | Residual thickness enhanced core-removed D-shaped single-mode fiber and its application for VOC evaporation monitoring. Optics Express, 2020, 28, 15641. | 3.4 | 8 |
| 23 | Optical anapole mode in nanostructured lithium niobate for enhancing second harmonic generation. Nanophotonics, 2020, 9, 3575-3585. | 6.0 | 55 |
| 24 | Accurate measurement of nanomechanical motion in a fiber-taper nano-optomechanical system. Applied Physics Letters, 2019, 115, . | 3.3 | 5 |
| 25 | Subwavelength polarization optics via individual and coupled helical traveling-wave nanoantennas. Light: Science and Applications, 2019, 8, 76. | 16.6 | 26 |
| 26 | All-Optical Tuning of Micro-Resonator Overlaid With MoTe ₂ Nanosheets. Journal of Lightwave Technology, 2019, 37, 3637-3646. | 4.6 | 9 |
| 27 | High sensitivity refractive index sensor based on micro-fiber with micro-arched transition. Optical Fiber Technology, 2019, 50, 13-18. | 2.7 | 3 |
| 28 | Sensitivity-Enhanced Fiber Plasmonic Sensor Utilizing Molybdenum Disulfide Nanosheets. Journal of Physical Chemistry C, 2019, 123, 10536-10543. | 3.1 | 18 |
| 29 | Long-Range Surface Plasmon Resonance Sensor Based on Side-Polished Fiber for Biosensing Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9. | 2.9 | 48 |
| 30 | Fano Resonance on Nanostructured Lithium Niobate for Highly Efficient and Tunable Second Harmonic Generation. Nanomaterials, 2019, 9, 69. | 4.1 | 29 |
| 31 | Enhanced Imbert-Fedorov shifts of higher-order Laguerre-Gaussian beams by lossy mode resonance. Optics Communications, 2019, 431, 136-141. | 2.1 | 12 |
| 32 | Side-polished few-mode fiber based surface plasmon resonance biosensor. Optics Express, 2019, 27, 11348. | 3.4 | 52 |
| 33 | Broadband all-light-control with WS ₂ coated microfibers. Optics Express, 2019, 27, 12817. | 3.4 | 8 |
| 34 | Tunable asymmetric spin splitting by black phosphorus sandwiched epsilon-near-zero-metamaterial in the terahertz region. Optics Express, 2019, 27, 15868. | 3.4 | 24 |
| 35 | Electron-plasmon interaction on lithium niobate with gold nanolayer and its field distribution dependent modulation. Optics Express, 2019, 27, 19852. | 3.4 | 12 |
| 36 | All-Optical Tuning of Light in WSe ₂ -Coated Microfiber. Nanoscale Research Letters, 2019, 14, 353. | 5.7 | 2 |

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|----|---|------|-----------|
| 37 | Measurement of Giant Spin Splitting of Reflected Gaussian Beams. IEEE Photonics Journal, 2018, 10, 1-7. | 2.0 | 8 |
| 38 | Halloysite Nanotube-Modified Plasmonic Interface for Highly Sensitive Refractive Index Sensing. ACS Applied Materials & Interfaces, 2018, 10, 5933-5940. | 8.0 | 44 |
| 39 | Plasmonic waveguide design for the enhanced forward stimulated Brillouin scattering in diamond. Scientific Reports, 2018, 8, 88. | 3.3 | 8 |
| 40 | High-performance fibre-optic humidity sensor based on a side-polished fibre wavelength selectively coupled with graphene oxide film. Sensors and Actuators B: Chemical, 2018, 255, 57-69. | 7.8 | 98 |
| 41 | Photonic spin Hall effect of monolayer black phosphorus in the Terahertz region. Nanophotonics, 2018, 7, 1929-1937. | 6.0 | 55 |
| 42 | High-sensitivity vector magnetic field sensor based on side-polished fiber plasmon and ferrofluid. Optics Letters, 2018, 43, 4743. | 3.3 | 69 |
| 43 | Sensing and Exploiting Static Femto-Newton Optical Forces by a Nanofiber with White-Light Interferometry. ACS Photonics, 2018, 5, 3205-3213. | 6.6 | 9 |
| 44 | Sensitivity-enhanced surface plasmon resonance sensor utilizing a tungsten disulfide (WS_2) nanosheets overlayer. Photonics Research, 2018, 6, 485. | 7.0 | 84 |
| 45 | High performance all-fiber temperature sensor based on coreless side-polished fiber wrapped with polydimethylsiloxane. Optics Express, 2018, 26, 9686. | 3.4 | 57 |
| 46 | High-sensitivity humidity sensing of side-polished optical fiber with polymer nanostructure cladding. Applied Optics, 2018, 57, 2539. | 1.8 | 12 |
| 47 | Theoretical investigation of optical modulators based on graphene-coated side-polished fiber. Optics Express, 2018, 26, 13759. | 3.4 | 27 |
| 48 | Magnetic spin-orbit interaction of light. Light: Science and Applications, 2018, 7, 24. | 16.6 | 31 |
| 49 | All-fiber-optic VOC gas sensor based on side-polished fiber wavelength selectively coupled with cholesteric liquid crystal film. Sensors and Actuators B: Chemical, 2018, 273, 1816-1826. | 7.8 | 48 |
| 50 | Highly sensitive all-optical control of light in WS_2 coated microfiber knot resonator. Optics Express, 2018, 26, 27650. | 3.4 | 19 |
| 51 | Electro-optic deflection in a lithium niobate quasi-single mode waveguide with microstructured electrodes. Optics Express, 2018, 26, 30100. | 3.4 | 11 |
| 52 | Surface plasmon resonance-based microfiber sensor with enhanced sensitivity by gold nanowires. Optical Materials Express, 2018, 8, 3927. | 3.0 | 29 |
| 53 | Resonance-assisted light control characteristics of SnS_2 on a microfiber knot resonator with fast response. Photonics Research, 2018, 6, 1137. | 7.0 | 19 |
| 54 | Broadband light-control-light characteristics of WS_2 on microfiber. , 2018, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Electro-optic mode deflection based on a lithium niobate waveguide with microstructured electrodes. , 2018, , . | | 1 |
| 56 | Design and optimization of nano-column array based surface plasmon resonance sensor. Optical and Quantum Electronics, 2017, 49, 1. | 3.3 | 9 |
| 57 | Optimization of polishing parameters for optical coupler based on side-polished photonic crystal fiber. Optical and Quantum Electronics, 2017, 49, 1. | 3.3 | 2 |
| 58 | Colloidal crystal cladding fiber based on side-polished fiber and its temperature sensing. Optical and Quantum Electronics, 2017, 49, 1. | 3.3 | 8 |
| 59 | Long range surface plasmon resonance sensor based on side polished fiber with the buffer layer of magnesium fluoride. Optical and Quantum Electronics, 2017, 49, 1. | 3.3 | 23 |
| 60 | The chiral nanophotonic coupling in two crossed fibers. , 2017, , . | | 0 |
| 61 | Indium Tin Oxide Coated Two-Mode Fiber for Enhanced SPR Sensor in Near-Infrared Region. IEEE Photonics Journal, 2017, 9, 1-9. | 2.0 | 24 |
| 62 | The upper limit of the in-plane spin splitting of Gaussian beam reflected from a glass-air interface. Scientific Reports, 2017, 7, 1150. | 3.3 | 29 |
| 63 | Fabrication of Side-Polished Single Mode-Multimode-Single Mode Fiber and Its Characteristics of Refractive Index Sensing. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 238-245. | 2.9 | 55 |
| 64 | Modeling of halloysite-nanotube modified surface plasmon resonance sensor. , 2017, , . | | 0 |
| 65 | Fabrication of rGO-GO Long Period Fiber Grating Using Laser Reduction Method. IEEE Photonics Journal, 2017, 9, 1-9. | 2.0 | 4 |
| 66 | Temperature sensing of side-polished optical fiber with polymer nanostructure cladding. , 2017, , . | | 0 |
| 67 | Controllable symmetric and asymmetric spin splitting of Laguerre-Gaussian beams assisted by surface plasmon resonance. Optics Letters, 2017, 42, 4869. | 3.3 | 19 |
| 68 | Coreless side-polished fiber: a novel fiber structure for multimode interference and highly sensitive refractive index sensors. Optics Express, 2017, 25, 5352. | 3.4 | 22 |
| 69 | Reduced graphene oxide wrapped on microfiber and its light-control-light characteristics. Optics Express, 2017, 25, 5415. | 3.4 | 10 |
| 70 | Enhanced optical sensitivity of molybdenum diselenide (MoSe ₂) coated side polished fiber for humidity sensing. Optics Express, 2017, 25, 9823. | 3.4 | 42 |
| 71 | Molybdenum disulfide nanosheets deposited on polished optical fiber for humidity sensing and human breath monitoring. Optics Express, 2017, 25, 28407. | 3.4 | 35 |
| 72 | All light-control-light properties of molybdenum diselenide (MoSe ₂)-coated-microfiber. Optics Express, 2017, 25, 28536. | 3.4 | 25 |

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|----|---|-----|-----------|
| 73 | Azimuth angle orientation by side scattering for side-polishing of photonic crystal fibers. Optics Express, 2017, 25, 32504. | 3.4 | 3 |
| 74 | Micro fiber with cladding of titanium dioxide (TiO ₂) nanoparticles and its violet light sensing. Optical Materials Express, 2017, 7, 264. | 3.0 | 13 |
| 75 | Tungsten disulfide wrapped on micro fiber for enhanced humidity sensing. Optical Materials Express, 2017, 7, 1686. | 3.0 | 35 |
| 76 | Tunable spin splitting of Laguerre-Gaussian beams in graphene metamaterials. Photonics Research, 2017, 5, 684. | 7.0 | 69 |
| 77 | Interlinked add-drop filter with amplitude modulation routing a fiber-optic microring to a lithium niobate microwaveguide. Optics Letters, 2017, 42, 1496. | 3.3 | 8 |
| 78 | Large spatial and angular spin splitting in a thin anisotropic $\hat{\mu}$ -near-zero metamaterial. Optics Express, 2017, 25, 5196. | 3.4 | 27 |
| 79 | Giant spin splitting induced by orbital angular momentum in an epsilon-near-zero metamaterial slab. Optics Letters, 2017, 42, 3259. | 3.3 | 32 |
| 80 | Side polished fiber coated with molybdenum diselenide (MoSe ₂) for humidity sensing. , 2017, , . | | 2 |
| 81 | Coreless side-polished fiber for multimode interference and highly sensitive refractive index sensing. , 2017, , . | | 0 |
| 82 | Add-Drop Filter Based on Wavelength-Dependent Light Interlink between Lithium-Niobate Microwaveguide Chip and Microfiber Knot Ring. Crystals, 2016, 6, 67. | 2.2 | 7 |
| 83 | Electro-optic beam deflection based on a lithium niobate waveguide with microstructured serrated electrodes. Optics Letters, 2016, 41, 4739. | 3.3 | 18 |
| 84 | Guided resonances on lithium niobate for extremely small electric field detection investigated by accurate sensitivity analysis. Optics Express, 2016, 24, 20196. | 3.4 | 27 |
| 85 | Reduced graphene oxide for fiber-optic toluene gas sensing. Optics Express, 2016, 24, 28290. | 3.4 | 29 |
| 86 | Side polished fiber with coated graphene sheet and its control characteristic of violet light. Optical Materials Express, 2016, 6, 2088. | 3.0 | 9 |
| 87 | Coupling between fiber-optic microring and lithium niobate microwaveguide chip towards photonic interlink devices. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 88 | High sensitivity SPR sensor based on microfiber coated with gold nanowires. , 2016, , . | | 1 |
| 89 | Fiber optic humidity sensing with few layers molybdenum disulfide. Proceedings of SPIE, 2016, , . | 0.8 | 2 |
| 90 | Coreless side polished fiber as ultra-sensitive refractive index sensor. Proceedings of SPIE, 2016, , . | 0.8 | 1 |

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|-----|---|-----|-----------|
| 91 | Surface plasmon resonance fiber optical sensor based on Photonic Crystal and graphene. , 2016, , . | | 1 |
| 92 | Improvement of light extraction efficiency of GaN-based flip-chip LEDs by a double-sided spherical cap-shaped patterned sapphire substrate. , 2016, , . | | 2 |
| 93 | Long range surface plasmon resonance sensor based on side polished fiber with a buffer layer of magnesium fluoride. , 2016, , . | | 0 |
| 94 | Optimization of polished angle for optical coupler based on side-polished photonic crystal fiber. , 2016, , . | | 0 |
| 95 | High-sensitivity optical sensing of temperature based on side-polished fiber with polymer nanoporous cladding. Optical Engineering, 2016, 55, 106123. | 1.0 | 2 |
| 96 | Theoretical analysis of polarization-coupled mode splitting in a single microfiber knot-ring resonator. Optical Engineering, 2016, 55, 066108. | 1.0 | 4 |
| 97 | Theoretical analysis of optical mode deflection in lithium niobate waveguide with serrated array electrodes. Optical and Quantum Electronics, 2016, 48, 1. | 3.3 | 4 |
| 98 | Fabrication and Characterization of a Colloidal Crystal Cladding Micro-Fiber. IEEE Photonics Technology Letters, 2016, 28, 406-409. | 2.5 | 3 |
| 99 | Simulation of mode deflection and reshaping in lithium niobate planar waveguide with serrated array electrodes. , 2015, , . | | 0 |
| 100 | Hybrid optical fiber add-drop filter based on wavelength dependent light coupling between micro/nano fiber ring and side-polished fiber. Scientific Reports, 2015, 5, 7710. | 3.3 | 21 |
| 101 | Optimal design of a fluorescence oxygen sensing probe based on multimode optical fibers. Optical and Quantum Electronics, 2015, 47, 2371-2379. | 3.3 | 2 |
| 102 | Double-sided hemispherical pattern design on patterned sapphire substrate of GaN-based LEDs. , 2015, , . | | 0 |
| 103 | Highly sensitive surface plasmon resonance fiber sensor based on triangle gold nano-rod array. , 2015, , . | | 0 |
| 104 | Design and optimization of surface plasmon resonance fiber sensor based on square gold nano-rod array. , 2015, , . | | 0 |
| 105 | Microfiber With Methyl Blue-Functionalized Reduced Graphene Oxide and Violet Light Sensing. IEEE Photonics Technology Letters, 2015, 27, 798-801. | 2.5 | 11 |
| 106 | Design and optimization of surface plasmon resonance sensor based on multimode fiber. Optical and Quantum Electronics, 2015, 47, 1495-1502. | 3.3 | 34 |
| 107 | Side-polished-fiber based optical coupler assisted with a fused nano silica film. Applied Optics, 2015, 54, 1598. | 1.8 | 16 |
| 108 | Fiber temperature sensor with nanostructured cladding by TiO ₂ nanoparticles self-assembled onto a side polished optical fiber. , 2015, , . | | 2 |

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|-----|--|-----|-----------|
| 109 | Optimized double-sided pattern design on a patterned sapphire substrate for flip-chip GaN-based light-emitting diodes. <i>Optical Engineering</i> , 2015, 54, 115108. | 1.0 | 5 |
| 110 | Reduced graphene oxide for fiber-optic humidity sensing. <i>Optics Express</i> , 2014, 22, 31555. | 3.4 | 95 |
| 111 | Optimization of the residual radius of the side-polished photonic crystal fiber coupler. , 2014, , . | | 0 |
| 112 | Angular orientation of micro-structured fiber by side imaging analysis. , 2014, , . | | 0 |
| 113 | Optical fiber with nanostructured cladding of TiO ₂ nanoparticles self-assembled onto a side polished fiber and its temperature sensing. <i>Optics Express</i> , 2014, 22, 32502. | 3.4 | 43 |
| 114 | All-optically reconfigurable and tunable fiber surface grating for in-fiber devices: a wideband tunable filter. <i>Optics Express</i> , 2014, 22, 5950. | 3.4 | 16 |
| 115 | Numerical analysis of optical coupling characteristics of side-polished photonics crystal fiber and micro optical fiber with bending. , 2014, , . | | 0 |
| 116 | Mode deflection in lithium niobate waveguide via electro-optic effect and its application for beam smoothing. , 2014, , . | | 1 |
| 117 | Double-sided pattern design on patterned sapphire substrate of GaN-based LEDs. , 2014, , . | | 0 |
| 118 | Design and optimization of multimode fiber sensor based on surface plasmon resonance. , 2014, , . | | 0 |
| 119 | Side-polished fiber as a sensor for the determination of nematic liquid crystal orientation. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 663-669. | 7.8 | 26 |
| 120 | Numerical analysis of optical propagation characteristics of side-polished photonics crystal fiber. <i>Optical and Quantum Electronics</i> , 2014, 46, 1261-1268. | 3.3 | 7 |
| 121 | Sensitive Surface Plasmon Resonance biosensor based on a photonic crystal and bimetallic configuration. , 2014, , . | | 2 |
| 122 | Optical and RF Characterization of a Lithium Niobate Photonic Crystal Modulator. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1332-1335. | 2.5 | 20 |
| 123 | All-fiber-optic temperature sensor based on reduced graphene oxide. <i>Laser Physics Letters</i> , 2014, 11, 035901. | 1.4 | 51 |
| 124 | Theoretical analysis of resonant mode splitting in a single microfiber knot-ring resonator. , 2013, , . | | 1 |
| 125 | Integrated temperature sensor based on an enhanced pyroelectric photonic crystal. <i>Optics Express</i> , 2013, 21, 16311. | 3.4 | 48 |
| 126 | Lithium niobate photonic crystal wire cavity: Realization of a compact electro-optically tunable filter. <i>Applied Physics Letters</i> , 2012, 101, . | 3.3 | 25 |