

Huihui Lu

List of Publications by Year in descending order

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126
papers

2,216
citations

201674

27
h-index

276875

41
g-index

128
all docs

128
docs citations

128
times ranked

1916
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance fibre-optic humidity sensor based on a side-polished fibre wavelength selectively coupled with graphene oxide film. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 57-69.	7.8	98
2	Reduced graphene oxide for fiber-optic humidity sensing. <i>Optics Express</i> , 2014, 22, 31555.	3.4	95
3	Sensitivity-enhanced surface plasmon resonance sensor utilizing a tungsten disulfide (WS_2) nanosheets overlayer. <i>Photonics Research</i> , 2018, 6, 485.	7.0	84
4	Tunable spin splitting of Laguerre-Gaussian beams in graphene metamaterials. <i>Photonics Research</i> , 2017, 5, 684.	7.0	69
5	High-sensitivity vector magnetic field sensor based on side-polished fiber plasmon and ferrofluid. <i>Optics Letters</i> , 2018, 43, 4743.	3.3	69
6	High performance all-fiber temperature sensor based on coreless side-polished fiber wrapped with polydimethylsiloxane. <i>Optics Express</i> , 2018, 26, 9686.	3.4	57
7	Fabrication of Side-Polished Single Mode-Multimode-Single Mode Fiber and Its Characteristics of Refractive Index Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 238-245.	2.9	55
8	Photonic spin Hall effect of monolayer black phosphorus in the Terahertz region. <i>Nanophotonics</i> , 2018, 7, 1929-1937.	6.0	55
9	Optical anapole mode in nanostructured lithium niobate for enhancing second harmonic generation. <i>Nanophotonics</i> , 2020, 9, 3575-3585.	6.0	55
10	Side-polished few-mode fiber based surface plasmon resonance biosensor. <i>Optics Express</i> , 2019, 27, 11348.	3.4	52
11	All-fiber-optic temperature sensor based on reduced graphene oxide. <i>Laser Physics Letters</i> , 2014, 11, 035901.	1.4	51
12	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
13	Integrated temperature sensor based on an enhanced pyroelectric photonic crystal. <i>Optics Express</i> , 2013, 21, 16311.	3.4	48
14	All-fiber-optic VOC gas sensor based on side-polished fiber wavelength selectively coupled with cholesteric liquid crystal film. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1816-1826.	7.8	48
15	Long-Range Surface Plasmon Resonance Sensor Based on Side-Polished Fiber for Biosensing Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-9.	2.9	48
16	Halloysite Nanotube-Modified Plasmonic Interface for Highly Sensitive Refractive Index Sensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5933-5940.	8.0	44
17	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
18	Enhanced optical sensitivity of molybdenum diselenide ($MoSe_2$) coated side polished fiber for humidity sensing. <i>Optics Express</i> , 2017, 25, 9823.	3.4	42

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19	Turnâ€œOn Circularly Polarized Luminescence in Metalâ€œOrganic Frameworks. <i>Advanced Optical Materials</i> , 2021, 9, 2002096.	7.3	36
20	Molybdenum disulfide nanosheets deposited on polished optical fiber for humidity sensing and human breath monitoring. <i>Optics Express</i> , 2017, 25, 28407.	3.4	35
21	Tungsten disulfide wrapped on micro fiber for enhanced humidity sensing. <i>Optical Materials Express</i> , 2017, 7, 1686.	3.0	35
22	Design and optimization of surface plasmon resonance sensor based on multimode fiber. <i>Optical and Quantum Electronics</i> , 2015, 47, 1495-1502.	3.3	34
23	Giant spin splitting induced by orbital angular momentum in an epsilon-near-zero metamaterial slab. <i>Optics Letters</i> , 2017, 42, 3259.	3.3	32
24	Magnetic spinâ€œorbit interaction of light. <i>Light: Science and Applications</i> , 2018, 7, 24.	16.6	31
25	Reduced graphene oxide for fiber-optic toluene gas sensing. <i>Optics Express</i> , 2016, 24, 28290.	3.4	29
26	The upper limit of the in-plane spin splitting of Gaussian beam reflected from a glass-air interface. <i>Scientific Reports</i> , 2017, 7, 1150.	3.3	29
27	Fano Resonance on Nanostructured Lithium Niobate for Highly Efficient and Tunable Second Harmonic Generation. <i>Nanomaterials</i> , 2019, 9, 69.	4.1	29
28	Surface plasmon resonance-based microfiber sensor with enhanced sensitivity by gold nanowires. <i>Optical Materials Express</i> , 2018, 8, 3927.	3.0	29
29	Guided resonances on lithium niobate for extremely small electric field detection investigated by accurate sensitivity analysis. <i>Optics Express</i> , 2016, 24, 20196.	3.4	27
30	Large spatial and angular spin splitting in a thin anisotropic $\hat{\mu}$ -near-zero metamaterial. <i>Optics Express</i> , 2017, 25, 5196.	3.4	27
31	Theoretical investigation of optical modulators based on graphene-coated side-polished fiber. <i>Optics Express</i> , 2018, 26, 13759.	3.4	27
32	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
33	Subwavelength polarization optics via individual and coupled helical traveling-wave nanoantennas. <i>Light: Science and Applications</i> , 2019, 8, 76.	16.6	26
34	Lithium niobate photonic crystal wire cavity: Realization of a compact electro-optically tunable filter. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	25
35	All light-control-light properties of molybdenum diselenide (MoSe ₂)-coated-microfiber. <i>Optics Express</i> , 2017, 25, 28536.	3.4	25
36	Indium Tin Oxide Coated Two-Mode Fiber for Enhanced SPR Sensor in Near-Infrared Region. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	2.0	24

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37	Tunable asymmetric spin splitting by black phosphorus sandwiched epsilon-near-zero-metamaterial in the terahertz region. <i>Optics Express</i> , 2019, 27, 15868.	3.4	24
38	Long range surface plasmon resonance sensor based on side polished fiber with the buffer layer of magnesium fluoride. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	23
39	Coreless side-polished fiber: a novel fiber structure for multimode interference and highly sensitive refractive index sensors. <i>Optics Express</i> , 2017, 25, 5352.	3.4	22
40	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
41	Hybrid optical fiber add-drop filter based on wavelength dependent light coupling between micro/nano fiber ring and side-polished fiber. <i>Scientific Reports</i> , 2015, 5, 7710.	3.3	21
42	Recent progress of second harmonic generation based on thin film lithium niobate [Invited]. <i>Chinese Optics Letters</i> , 2021, 19, 060012.	2.9	21
43	Optical and RF Characterization of a Lithium Niobate Photonic Crystal Modulator. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1332-1335.	2.5	20
44	Controllable symmetric and asymmetric spin splitting of Laguerre-Gaussian beams assisted by surface plasmon resonance. <i>Optics Letters</i> , 2017, 42, 4869.	3.3	19
45	Highly sensitive all-optical control of light in WS ₂ coated microfiber knot resonator. <i>Optics Express</i> , 2018, 26, 27650.	3.4	19
46	Resonance-assisted light control characteristics of SnS ₂ on a microfiber knot resonator with fast response. <i>Photonics Research</i> , 2018, 6, 1137.	7.0	19
47	Electro-optic beam deflection based on a lithium niobate waveguide with microstructured serrated electrodes. <i>Optics Letters</i> , 2016, 41, 4739.	3.3	18
48	Sensitivity-Enhanced Fiber Plasmonic Sensor Utilizing Molybdenum Disulfide Nanosheets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10536-10543.	3.1	18
49	Optical fiber bio-sensor for phospholipase using liquid crystal. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112547.	10.1	18
50	Resonance-enhanced all-optical modulation of WSe ₂ -based micro-resonator. <i>Nanophotonics</i> , 2020, 9, 2387-2396.	6.0	17
51	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
52	Side-polished-fiber based optical coupler assisted with a fused nano silica film. <i>Applied Optics</i> , 2015, 54, 1598.	1.8	16
53	Plasmonic Helical Nanoantenna As a Converter between Longitudinal Fields and Circularly Polarized Waves. <i>Nano Letters</i> , 2021, 21, 3410-3417.	9.1	16
54	Micro fiber with cladding of titanium dioxide (TiO ₂) nanoparticles and its violet light sensing. <i>Optical Materials Express</i> , 2017, 7, 264.	3.0	13

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55	High-sensitivity humidity sensing of side-polished optical fiber with polymer nanostructure cladding. Applied Optics, 2018, 57, 2539.	1.8	12
56	Enhanced Imbertâ€“Fedorov shifts of higher-order Laguerreâ€“Gaussian beams by lossy mode resonance. Optics Communications, 2019, 431, 136-141.	2.1	12
57	High-sensitivity fiber-optic humidity sensor based on microfiber overlaid with niobium disulfide. Journal of Materials Science, 2020, 55, 16576-16587.	3.7	12
58	Electron-plasmon interaction on lithium niobate with gold nanolayer and its field distribution dependent modulation. Optics Express, 2019, 27, 19852.	3.4	12
59	Side Polished Fiber: A Versatile Platform for Compact Fiber Devices and Sensors. Photonic Sensors, 2023, 13, .	5.0	12
60	Microfiber With Methyl Blue-Functionalized Reduced Graphene Oxide and Violet Light Sensing. IEEE Photonics Technology Letters, 2015, 27, 798-801.	2.5	11
61	Electro-optic deflection in a lithium niobate quasi-single mode waveguide with microstructured electrodes. Optics Express, 2018, 26, 30100.	3.4	11
62	Reduced graphene oxide wrapped on microfiber and its light-control-light characteristics. Optics Express, 2017, 25, 5415.	3.4	10
63	Side polished fiber with coated graphene sheet and its control characteristic of violet light. Optical Materials Express, 2016, 6, 2088.	3.0	9
64	Design and optimization of nano-column array based surface plasmon resonance sensor. Optical and Quantum Electronics, 2017, 49, 1.	3.3	9
65	Sensing and Exploiting Static Femto-Newton Optical Forces by a Nanofiber with White-Light Interferometry. ACS Photonics, 2018, 5, 3205-3213.	6.6	9
66	All-Optical Tuning of Micro-Resonator Overlaid With MoTe ₂ Nanosheets. Journal of Lightwave Technology, 2019, 37, 3637-3646.	4.6	9
67	Ultrafast freestanding microfiber humidity sensor based on three-dimensional graphene network cladding. Optics Express, 2020, 28, 4362.	3.4	9
68	Colloidal crystal cladding fiber based on side-polished fiber and its temperature sensing. Optical and Quantum Electronics, 2017, 49, 1.	3.3	8
69	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
70	Measurement of Giant Spin Splitting of Reflected Gaussian Beams. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	8
71	Plasmonic waveguide design for the enhanced forward stimulated brillouin scattering in diamond. Scientific Reports, 2018, 8, 88.	3.3	8
72	Broadband all-light-control with WS ₂ coated microfibers. Optics Express, 2019, 27, 12817.	3.4	8

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73	Residual thickness enhanced core-removed D-shaped single-mode fiber and its application for VOC evaporation monitoring. <i>Optics Express</i> , 2020, 28, 15641.	3.4	8
74	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
75	Add-Drop Filter Based on Wavelength-Dependent Light Interlink between Lithium-Niobate Microwaveguide Chip and Microfiber Knot Ring. <i>Crystals</i> , 2016, 6, 67.	2.2	7
76	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
77	Accurate measurement of nanomechanical motion in a fiber-taper nano-optomechanical system. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	5
78	Theoretical analysis of polarization-coupled mode splitting in a single microfiber knot-ring resonator. <i>Optical Engineering</i> , 2016, 55, 066108.	1.0	4
79	Theoretical analysis of optical mode deflection in lithium niobate waveguide with serrated array electrodes. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	4
80	Fabrication of rGO-GO Long Period Fiber Grating Using Laser Reduction Method. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	2.0	4
81	Broadband Light Amplitude Tuning Characteristics of SnSe ₂ Coated Microfiber. <i>Journal of Lightwave Technology</i> , 2020, 38, 6089-6096.	4.6	4
82	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
83	Gold Enhanced Graphene-Based Photodetector on Optical Fiber with Ultrasensitivity over Near-Infrared Bands. <i>Nanomaterials</i> , 2022, 12, 124.	4.1	4
84	Fabrication and Characterization of a Colloidal Crystal Cladding Micro-Fiber. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 406-409.	2.5	3
85	Azimuth angle orientation by side scattering for side-polishing of photonic crystal fibers. <i>Optics Express</i> , 2017, 25, 32504.	3.4	3
86	High sensitivity refractive index sensor based on micro-fiber with micro-arched transition. <i>Optical Fiber Technology</i> , 2019, 50, 13-18.	2.7	3
87	Hybrid plasmonic-phononic cavity design for enhanced optomechanical coupling in lithium niobate. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1395-1407.	3.1	3
88	Electric Field Sensor Based on High Q Fano Resonance of Nano-Patterned Electro-Optic Materials. <i>Photonics</i> , 2022, 9, 431.	2.0	3
89	Sensitive Surface Plasmon Resonance biosensor based on a photonic crystal and bimetallic configuration. , 2014, , .		2
90	Optimal design of a fluorescence oxygen sensing probe based on multimode optical fibers. <i>Optical and Quantum Electronics</i> , 2015, 47, 2371-2379.	3.3	2

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91	Fiber temperature sensor with nanostructured cladding by TiO ₂ nanoparticles self-assembled onto a side polished optical fiber. , 2015, , .		2
92	Fiber optic humidity sensing with few layers molybdenum disulfide. Proceedings of SPIE, 2016, , .	0.8	2
93	Improvement of light extraction efficiency of GaN-based flip-chip LEDs by a double-sided spherical cap-shaped patterned sapphire substrate. , 2016, , .		2
94	High-sensitivity optical sensing of temperature based on side-polished fiber with polymer nanoporous cladding. Optical Engineering, 2016, 55, 106123.	1.0	2
95	Optimization of polishing parameters for optical coupler based on side-polished photonic crystal fiber. Optical and Quantum Electronics, 2017, 49, 1.	3.3	2
96	Tin Disulfide-Coated Microfiber for Humidity Sensing with Fast Response and High Sensitivity. Crystals, 2021, 11, 648.	2.2	2
97	Side polished fiber coated with molybdenum diselenide (MoSe ₂) for humidity sensing. , 2017, , .		2
98	All-Optical Tuning of Light in WSe ₂ -Coated Microfiber. Nanoscale Research Letters, 2019, 14, 353.	5.7	2
99	Wavefront shaping for reconfigurable beam steering in lithium niobate multimode waveguide. Optics Letters, 2022, 47, 329.	3.3	2
100	Theoretical analysis of resonant mode splitting in a single microfiber knot-ring resonator. , 2013, , .		1
101	Mode deflection in lithium niobate waveguide via electro-optic effect and its application for beam smoothing. , 2014, , .		1
102	High sensitivity SPR sensor based on microfiber coated with gold nanowires. , 2016, , .		1
103	Coreless side polished fiber as ultra-sensitive refractive index sensor. Proceedings of SPIE, 2016, , .	0.8	1
104	Surface plasmon resonance fiber optical sensor based on Photonic Crystal and graphene. , 2016, , .		1
105	High Light Tuning Efficiency in All Optical In ₂ Se ₃ Coated Micro Knot Resonator Structure. IEEE Access, 2020, 8, 190009-190016.	4.2	1
106	Electro-optic mode deflection based on a lithium niobate waveguide with microstructured electrodes. , 2018, , .		1
107	SnSe-Coated Microfiber Resonator for All-Optical Modulation. Nanomaterials, 2022, 12, 694.	4.1	1
108	Optimization of the residual radius of the side-polished photonic crystal fiber coupler. , 2014, , .		0

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109	Angular orientation of micro-structured fiber by side imaging analysis. , 2014, , .		0
110	Numerical analysis of optical coupling characteristics of side-polished photonics crystal fiber and micro optical fiber with bending. , 2014, , .		0
111	Double-sided pattern design on patterned sapphire substrate of GaN-based LEDs. , 2014, , .		0
112	Design and optimization of multimode fiber sensor based on surface plasmon resonance. , 2014, , .		0
113	Simulation of mode deflection and reshaping in lithium niobate planar waveguide with serrated array electrodes. , 2015, , .		0
114	Double-sided hemispherical pattern design on patterned sapphire substrate of GaN-based LEDs. , 2015, , .		0
115	Highly sensitive surface plasmon resonance fiber sensor based on triangle gold nano-rod array. , 2015, , .		0
116	Design and optimization of surface plasmon resonance fiber sensor based on square gold nano-rod array. , 2015, , .		0
117	Coupling between fiber-optic microring and lithium niobate microwaveguide chip towards photonic interlink devices. Proceedings of SPIE, 2016, , .	0.8	0
118	Long range surface plasmon resonance sensor based on side polished fiber with a buffer layer of magnesium fluoride. , 2016, , .		0
119	Optimization of polished angle for optical coupler based on side-polished photonic crystal fiber. , 2016, , .		0
120	The chiral nanophotonic coupling in two crossed fibers. , 2017, , .		0
121	Modeling of halloysite-nanotube modified surface plasmon resonance sensor. , 2017, , .		0
122	Temperature sensing of side-polished optical fiber with polymer nanostructure cladding. , 2017, , .		0
123	Coreless side-polished fiber for multimode interference and highly sensitive refractive index sensing. , 2017, , .		0
124	Broadband light-control-light characteristics of WS ₂ on microfiber. , 2018, , .		0
125	Ultrafast Microfiber Humidity Sensor Based on Three Dimensional Molybdenum Disulfide Network Cladding. Frontiers in Physics, 2022, 10, .	2.1	0
126	Correction to "Broadband Light Amplitude Tuning Characteristics of SnSe ₂ Coated Microfiber" [Nov 20 6089-6096]. Journal of Lightwave Technology, 2022, 40, 4058-4058.	4.6	0