

# Huihui Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,126  
citations

361296

20  
h-index

395590

33  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic Packaging: Transforming Silicon Photonic Integrated Circuits into Photonic Devices. Applied Sciences (Switzerland), 2016, 6, 426.	1.3	153
2	Reduced graphene oxide for fiber-optic humidity sensing. Optics Express, 2014, 22, 31555.	1.7	95
3	Flip-chip integration of tilted VCSELs onto a silicon photonic integrated circuit. Optics Express, 2016, 24, 16258.	1.7	55
4	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.	1.9	55
5	All-fiber-optic temperature sensor based on reduced graphene oxide. Laser Physics Letters, 2014, 11, 035901.	0.6	51
6	Integrated temperature sensor based on an enhanced pyroelectric photonic crystal. Optics Express, 2013, 21, 16311.	1.7	48
7	Optical fiber with nanostructured cladding of TiO <sub>2</sub> nanoparticles self-assembled onto a side polished fiber and its temperature sensing. Optics Express, 2014, 22, 32502.	1.7	43
8	Development of an immunosensor for the detection of testosterone in bovine urine. Analytica Chimica Acta, 2007, 583, 153-160.	2.6	42
9	Evaluation of wavelength ranges and tissue depth probed by diffuse reflectance spectroscopy for colorectal cancer detection. Scientific Reports, 2021, 11, 798.	1.6	42
10	A recombinant Fab fragment-based electrochemical immunosensor for the determination of testosterone in bovine urine. Biosensors and Bioelectronics, 2007, 22, 1756-1763.	5.3	41
11	Design and optimization of surface plasmon resonance sensor based on multimode fiber. Optical and Quantum Electronics, 2015, 47, 1495-1502.	1.5	34
12	Screening for testosterone, methyltestosterone, 19-nortestosterone residues and their metabolites in bovine urine with enzyme-linked immunosorbent assay (ELISA). Analytica Chimica Acta, 2006, 570, 116-123.	2.6	31
13	Electrochemical immunosensors for the detection of 19-nortestosterone and methyltestosterone in bovine urine. Sensors and Actuators B: Chemical, 2007, 121, 103-112.	4.0	30
14	Reduced graphene oxide for fiber-optic toluene gas sensing. Optics Express, 2016, 24, 28290.	1.7	29
15	Fano Resonance on Nanostructured Lithium Niobate for Highly Efficient and Tunable Second Harmonic Generation. Nanomaterials, 2019, 9, 69.	1.9	29
16	Guided resonances on lithium niobate for extremely small electric field detection investigated by accurate sensitivity analysis. Optics Express, 2016, 24, 20196.	1.7	27
17	Side-polished fiber as a sensor for the determination of nematic liquid crystal orientation. Sensors and Actuators B: Chemical, 2014, 196, 663-669.	4.0	26
18	Lithium niobate photonic crystal wire cavity: Realization of a compact electro-optically tunable filter. Applied Physics Letters, 2012, 101, .	1.5	25

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19	Screening of boldenone and methylboldenone in bovine urine using disposable electrochemical immunosensors. <i>Steroids</i> , 2006, 71, 760-767.	0.8	22
20	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.	1.6	21
21	Optical and RF Characterization of a Lithium Niobate Photonic Crystal Modulator. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1332-1335.	1.3	20
22	Electro-optic beam deflection based on a lithium niobate waveguide with microstructured serrated electrodes. <i>Optics Letters</i> , 2016, 41, 4739.	1.7	18
23	Diffuse reflectance spectroscopy for determination of optical properties and chromophore concentrations of mice internal organs in the range of 350 nm to 1860 nm. , 2018, , .		17
24	All-optically reconfigurable and tunable fiber surface grating for in-fiber devices: a wideband tunable filter. <i>Optics Express</i> , 2014, 22, 5950.	1.7	16
25	Side-polished-fiber based optical coupler assisted with a fused nano silica film. <i>Applied Optics</i> , 2015, 54, 1598.	0.9	16
26	Tissue biomolecular and microstructure profiles in optical colorectal cancer delineation. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 454002.	1.3	16
27	Fluorescence Spectroscopy Study of Protoporphyrin IX in Optical Tissue Simulating Liquid Phantoms. <i>Materials</i> , 2020, 13, 2105.	1.3	13
28	Microfiber With Methyl Blue-Functionalized Reduced Graphene Oxide and Violet Light Sensing. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 798-801.	1.3	11
29	Combined autofluorescence and diffuse reflectance for brain tumour surgical guidance: initial ex vivo study results. <i>Biomedical Optics Express</i> , 2021, 12, 2432.	1.5	11
30	Combination of diffuse reflectance and transmittance spectroscopy to obtain optical properties of liquid phantoms. <i>Optical Engineering</i> , 2020, 59, 1.	0.5	10
31	Side polished fiber with coated graphene sheet and its control characteristic of violet light. <i>Optical Materials Express</i> , 2016, 6, 2088.	1.6	9
32	Design and optimization of nano-column array based surface plasmon resonance sensor. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	9
33	Numerical analysis of optical propagation characteristics of side-polished photonics crystal fiber. <i>Optical and Quantum Electronics</i> , 2014, 46, 1261-1268.	1.5	7
34	Add-Drop Filter Based on Wavelength-Dependent Light Interlink between Lithium-Niobate Microwaveguide Chip and Microfiber Knot Ring. <i>Crystals</i> , 2016, 6, 67.	1.0	7
35	Photonic crystal electro-optic devices in engineered thin film lithium niobate substrates. , 2012, , .		5
36	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.	0.5	5

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37	Theoretical analysis of polarization-coupled mode splitting in a single microfiber knot-ring resonator. Optical Engineering, 2016, 55, 066108.	0.5	4
38	Theoretical analysis of optical mode deflection in lithium niobate waveguide with serrated array electrodes. Optical and Quantum Electronics, 2016, 48, 1.	1.5	4
39	Fabrication and Characterization of a Colloidal Crystal Cladding Micro-Fiber. IEEE Photonics Technology Letters, 2016, 28, 406-409.	1.3	3
40	Multi-Spectral Clinical Prototype for Fluorophore Detection. Frontiers in Physics, 2021, 9, .	1.0	3
41	Determination optical properties of tissue-like phantoms using diffuse reflectance and transmittance spectroscopy. , 2018, , .		3
42	Electric Field Sensor Based on High Q Fano Resonance of Nano-Patterned Electro-Optic Materials. Photonics, 2022, 9, 431.	0.9	3
43	Optimal design of a fluorescence oxygen sensing probe based on multimode optical fibers. Optical and Quantum Electronics, 2015, 47, 2371-2379.	1.5	2
44	Fiber temperature sensor with nanostructured cladding by TiO <sub>2</sub> nanoparticles self-assembled onto a side polished optical fiber. , 2015, , .		2
45	Fiber optic humidity sensing with few layers molybdenum disulfide. Proceedings of SPIE, 2016, , .	0.8	2
46	High-sensitivity optical sensing of temperature based on side-polished fiber with polymer nanoporous cladding. Optical Engineering, 2016, 55, 106123.	0.5	2
47	Hybrid integration of VCSELs onto a silicon photonic platform for biosensing application. , 2017, , .		2
48	Tin Disulfide-Coated Microfiber for Humidity Sensing with Fast Response and High Sensitivity. Crystals, 2021, 11, 648.	1.0	2
49	Graphene-based all-fiber-optic temperature sensor. , 2014, , .		1
50	Coreless side polished fiber as ultra-sensitive refractive index sensor. Proceedings of SPIE, 2016, , .	0.8	1
51	Broadband diffuse reflectance spectroscopy for colorectal surgical guidance (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		1
52	SnSe-Coated Microfiber Resonator for All-Optical Modulation. Nanomaterials, 2022, 12, 694.	1.9	1
53	Improving colorectal cancer detection by extending the near-infrared wavelength range and tissue probed depth of diffuse reflectance spectroscopy: a support vector machine approach. , 2022, , .		1
54	Violet laser power sensor based on micro-fiber coated with methyl blue-functionalized reduced graphene oxide. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Fabrication of three dimensional microstructure fiber. Proceedings of SPIE, 2015, , .	0.8	0
56	Sensing nanometric displacement of a micro-/nano-fiber induced by optical forces by use of white light interferometry. Proceedings of SPIE, 2015, , .	0.8	0
57	Acetone vapor fiber sensor based on side polished fiber coated with cholesteric liquid crystal. , 2015, , .		0
58	Fluorescence spectroscopy study of protoporphyrin IX in tissue-like phantoms. , 2019, , .		0
59	Approximation Relation for Rough Sets. Communications in Computer and Information Science, 2021, , 402-417.	0.4	0
60	Accurate colorectal cancer detection and delineation by probing superficial and deeper tissue biochemistry and microstructure using diffuse reflectance spectroscopy. , 2022, , .		0
61	Miniaturized, multi-spectral optics for tissue differentiation. , 2022, , .		0