

# Li Xuegang

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,720  
citations

218677

26  
h-index

289244

40  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1035  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ DNA detection with an interferometric-type optical sensor based on tapered exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130942.	7.8	37
2	A plug-and-play optical fiber SPR sensor for simultaneous measurement of glucose and cholesterol concentrations. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113798.	10.1	44
3	Simultaneous Measurement of Temperature and Relative Humidity Using Cascaded C-shaped Fabry-Perot interferometers. <i>Journal of Lightwave Technology</i> , 2022, 40, 1209-1215.	4.6	24
4	Plug-in label-free optical fiber DNA hybridization sensor based on C-type fiber Vernier effect. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131212.	7.8	26
5	Research on temperature sensing characteristics of fiber side-open cavity structure. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110741.	5.0	1
6	Plug-in optical fiber SPR biosensor for lung cancer gene detection with temperature and pH compensation. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131596.	7.8	40
7	High Precision Optical Path Difference Compensation Method Based on Three-Parameter Cosine Fitting Method. <i>Journal of Lightwave Technology</i> , 2022, 40, 4911-4918.	4.6	4
8	Temperature compensated fiber optic magnetic sensor based on the combination interference principle. <i>Optics Letters</i> , 2022, 47, 2558.	3.3	6
9	Temperature Compensated Magnetic Field Sensor Using Magnetic Fluid Filled Exposed Core Microstructure Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	15
10	Optical fiber SPR biosensor based on gold nanoparticle amplification for DNA hybridization detection. <i>Talanta</i> , 2022, 247, 123599.	5.5	29
11	Highly sensitive refractive index sensor based on a D-shaped few-mode fiber with silver and graphene film. <i>Optik</i> , 2022, 267, 169653.	2.9	6
12	Fiber-optic sensors based on Vernier effect. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108451.	5.0	122
13	Electrically tunable optical fiber device based on hollow-core fiber infiltrated with liquid crystal. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112500.	4.1	11
14	Cascaded Sagnac Loops Embedded With Two Polarization Maintaining Photonic Crystal Fibers for Highly Sensitive Strain Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	18
15	Highly Sensitive Humidity Sensor With Low-Temperature Cross-Sensitivity Based on a Polyvinyl Alcohol Coating Tapered Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	23
16	Simultaneous Measurement of Temperature and Pressure Based on Ring-Shaped Sensing Structure With Polymer Coated No-Core Fiber. <i>IEEE Sensors Journal</i> , 2021, 21, 22783-22791.	4.7	7
17	A review of specialty fiber biosensors based on interferometer configuration. <i>Journal of Biophotonics</i> , 2021, 14, e202100068.	2.3	57
18	No-core optical fiber sensor based on surface plasmon resonance for glucose solution concentration and temperature measurement. <i>Optics Express</i> , 2021, 29, 12930.	3.4	67

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19	Microstructured optical fiber temperature sensor based on the self-phase modulation effect. <i>Optics Express</i> , 2021, 29, 15653.	3.4	7
20	Theoretical Investigation of Mid-Infrared Temperature Sensing Based on Four-Wave Mixing in a CS <sub>2</sub> -Filled GeAsSeTe Microstructured Optical Fiber. <i>IEEE Sensors Journal</i> , 2021, 21, 10711-10718.	4.7	8
21	Optical fiber sensors for glucose concentration measurement: A review. <i>Optics and Laser Technology</i> , 2021, 139, 106981.	4.6	71
22	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. <i>Analytical Chemistry</i> , 2021, 93, 10561-10567.	6.5	51
23	An Ultra-High Sensitivity Optical Fiber Refractive Index Sensor Based on Plasmonic Mach-Zehnder Interferometer. <i>IEEE Photonics Journal</i> , 2021, 13, 1-7.	2.0	6
24	A Miniature Optical Fiber Fabry-Perot Interferometer Temperature Sensor Based on Tellurite Glass. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	9
25	Optical Fiber SPR Sensor With Surface Ion Imprinting for Highly Sensitive and Highly Selective Ni <sup>2+</sup> Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	11
26	Numerical demonstration of mid-infrared temperature sensing by soliton self-frequency shift in a fluorotellurite microstructured fiber. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	0
27	Simultaneous Measurement of Temperature and Refractive Index Using an Exposed Core Microstructured Optical Fiber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-7.	2.9	34
28	Refractive Index and Temperature Sensing with Sagnac-Mach Zehnder Hybrid Fiber Interferometer. , 2020, , .		0
29	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128681.	7.8	27
30	A Refractive Index Sensitive Liquid Level Monitoring Sensor Based on Multimode Interference. <i>Photonics</i> , 2020, 7, 89.	2.0	9
31	Highly-sensitive and reflective glucose sensor based on optical fiber surface plasmon resonance. <i>Microchemical Journal</i> , 2020, 157, 105010.	4.5	50
32	Temperature-Compensated Refractive Index Measurement Using a Dual Fabry-Perot Interferometer Based on C-Fiber Cavity. <i>IEEE Sensors Journal</i> , 2020, 20, 6408-6413.	4.7	37
33	A Vectorial Analysis of the Curvature Sensor Based on a Dual-Core Photonic Crystal Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6564-6570.	4.7	16
34	High-Sensitivity SPR Temperature Sensor Based on Hollow-Core Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 8494-8499.	4.7	84
35	Surface plasmon resonance temperature sensor based on a photonic crystal fiber filled with silver nanowires. <i>Applied Optics</i> , 2020, 59, 5108.	1.8	29
36	Optical Fiber SPR Sensor for Highly-Sensitive Detection of Cholesterol Concentration. , 2020, , .		0

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37	Magnetic Field Sensing Based on SPR Optical Fiber Sensor Interacting With Magnetic Fluid. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 234-239.	4.7	105
38	Optical fiber refractive index sensor with low detection limit and large dynamic range using a hybrid fiber interferometer. Journal of Lightwave Technology, 2019, , 1-1.	4.6	28
39	A High-Sensitivity Temperature Sensor Based on Glycerol-Filled Tellurite Microstructure Optical Fiber. IEEE Access, 2019, 7, 180244-180250.	4.2	12
40	In-fiber Surface Plasmon Resonance Temperature Sensor Based on PDMS Infiltrated Hollow Core Fiber. , 2019, , .		0
41	Multi-modes interferometer for magnetic field and temperature measurement using Photonic crystal fiber filled with magnetic fluid. Optical Fiber Technology, 2018, 41, 1-6.	2.7	48
42	High-sensitivity Sagnac-interferometer biosensor based on exposed core microstructured optical fiber. Sensors and Actuators B: Chemical, 2018, 269, 103-109.	7.8	88
43	Graphene enhanced optical fiber SPR sensor for liquid concentration measurement. Optical Fiber Technology, 2018, 43, 62-66.	2.7	51
44	Simultaneous Measurement of Electric Field and Strain With a Tandem-Interferometric Device. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 965-970.	4.7	15
45	High sensitivity all-fiber Sagnac interferometer temperature sensor using a selective ethanol-filled photonic crystal fiber. Instrumentation Science and Technology, 2018, 46, 253-264.	1.8	22
46	High Sensitivity Photonic Crystal Fiber Refractive Index Sensor with Gold Coated Externally Based on Surface Plasmon Resonance. Micromachines, 2018, 9, 640.	2.9	35
47	Practical sensing approach based on surface plasmon resonance in a photonic crystal fiber. OSA Continuum, 2018, 1, 1332.	1.8	22
48	Measurement of Magnetic Field and Temperature Based on Fiber-Optic Composite Interferometer. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1906-1911.	4.7	44
49	Temperature-Insensitive Optical Fiber Curvature Sensor Based on SMF-MMF-TCSMF-MMF-SMF Structure. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 141-147.	4.7	64
50	Glucose sensor realized with photonic crystal fiber-based Sagnac interferometer. Optics Communications, 2017, 405, 143-146.	2.1	38
51	Small Curvature Sensor Based on Butterfly-Shaped Mach-Zehnder Interferometer. IEEE Transactions on Electron Devices, 2017, 64, 4644-4649.	3.0	42
52	Simultaneous Measurement of RI and Temperature Based on a Composite Interferometer. IEEE Photonics Technology Letters, 2016, 28, 1839-1842.	2.5	17
53	Measurement of RI and Temperature Using Composite Interferometer With Hollow-Core Fiber and Photonic Crystal Fiber. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2631-2636.	4.7	35
54	In-Fiber Mach-Zehnder Interferometer Based on Up-Taper Fiber Structure With Er <sup>3+</sup> Doped Fiber Ring Laser. Journal of Lightwave Technology, 2016, 34, 3475-3481.	4.6	25

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55	Applications of Modal Interferences in Optical Fiber Sensors Based on Mismatch Methods. Instrumentation Science and Technology, 2015, 43, 1-20.	1.8	9
56	High Sensitive Modal Interferometer for Temperature and Refractive Index Measurement. IEEE Photonics Technology Letters, 2015, 27, 1341-1344.	2.5	34