

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	Fiber-optic sensors based on Vernier effect. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108451.	5.0	122
2	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
3	High-sensitivity Sagnac-interferometer biosensor based on exposed core microstructured optical fiber. Sensors and Actuators B: Chemical, 2018, 269, 103-109.	7.8	88
4	High-Sensitivity SPR Temperature Sensor Based on Hollow-Core Fiber. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8494-8499.	4.7	84
5	Optical fiber sensors for glucose concentration measurement: A review. Optics and Laser Technology, 2021, 139, 106981.	4.6	71
6	No-core optical fiber sensor based on surface plasmon resonance for glucose solution concentration and temperature measurement. Optics Express, 2021, 29, 12930.	3.4	67
7	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
8	A review of specialty fiber biosensors based on interferometer configuration. Journal of Biophotonics, 2021, 14, e202100068.	2.3	57
9	Graphene enhanced optical fiber SPR sensor for liquid concentration measurement. Optical Fiber Technology, 2018, 43, 62-66.	2.7	51
10	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. Analytical Chemistry, 2021, 93, 10561-10567.	6.5	51
11	Highly-sensitive and reflective glucose sensor based on optical fiber surface plasmon resonance. Microchemical Journal, 2020, 157, 105010.	4.5	50
12	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
13	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
14	A plug-and-play optical fiber SPR sensor for simultaneous measurement of glucose and cholesterol concentrations. Biosensors and Bioelectronics, 2022, 198, 113798.	10.1	44
15	Small Curvature Sensor Based on Butterfly-Shaped Mach-Zehnder Interferometer. IEEE Transactions on Electron Devices, 2017, 64, 4644-4649.	3.0	42
16	Plug-in optical fiber SPR biosensor for lung cancer gene detection with temperature and pH compensation. Sensors and Actuators B: Chemical, 2022, 359, 131596.	7.8	40
17	Glucose sensor realized with photonic crystal fiber-based Sagnac interferometer. Optics Communications, 2017, 405, 143-146.	2.1	38
18	Temperature-Compensated Refractive Index Measurement Using a Dual Fabry-Perot Interferometer Based on C-Fiber Cavity. IEEE Sensors Journal, 2020, 20, 6408-6413.	4.7	37

#	ARTICLE	IF	CITATIONS
19	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
20	Measurement of RI and Temperature Using Composite Interferometer With Hollow-Core Fiber and Photonic Crystal Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2631-2636.	4.7	35
21	High Sensitivity Photonic Crystal Fiber Refractive Index Sensor with Gold Coated Externally Based on Surface Plasmon Resonance. <i>Micromachines</i> , 2018, 9, 640.	2.9	35
22	High Sensitive Modal Interferometer for Temperature and Refractive Index Measurement. <i>IEEE Photonics Technology Letters</i> , 2015, 27, 1341-1344.	2.5	34
23	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
24	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
25	Optical fiber SPR biosensor based on gold nanoparticle amplification for DNA hybridization detection. <i>Talanta</i> , 2022, 247, 123599.	5.5	29
26	Optical fiber refractive index sensor with low detection limit and large dynamic range using a hybrid fiber interferometer. <i>Journal of Lightwave Technology</i> , 2019, , 1-1.	4.6	28
27	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128681.	7.8	27
28	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
29	In-Fiber Mach-Zehnder Interferometer Based on Up-Taper Fiber Structure With Er ³⁺ Doped Fiber Ring Laser. <i>Journal of Lightwave Technology</i> , 2016, 34, 3475-3481.	4.6	25
30	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
31	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
32	High sensitivity all-fiber Sagnac interferometer temperature sensor using a selective ethanol-filled photonic crystal fiber. <i>Instrumentation Science and Technology</i> , 2018, 46, 253-264.	1.8	22
33	Practical sensing approach based on surface plasmon resonance in a photonic crystal fiber. <i>OSA Continuum</i> , 2018, 1, 1332.	1.8	22
34	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
35	Simultaneous Measurement of RI and Temperature Based on a Composite Interferometer. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1839-1842.	2.5	17
36	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

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37	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
38	Temperature Compensated Magnetic Field Sensor Using Magnetic Fluid Filled Exposed Core Microstructure Fiber. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	15
39	A High-Sensitivity Temperature Sensor Based on Glycerol-Filled Tellurite Microstructure Optical Fiber. IEEE Access, 2019, 7, 180244-180250.	4.2	12
40	Electrically tunable optical fiber device based on hollow-core fiber infiltrated with liquid crystal. Sensors and Actuators A: Physical, 2021, 318, 112500.	4.1	11
41	Optical Fiber SPR Sensor With Surface Ion Imprinting for Highly Sensitive and Highly Selective Ni ²⁺ Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-6.	4.7	11
42	Applications of Modal Interferences in Optical Fiber Sensors Based on Mismatch Methods. Instrumentation Science and Technology, 2015, 43, 1-20.	1.8	9
43	A Refractive Index Sensitive Liquid Level Monitoring Sensor Based on Multimode Interference. Photonics, 2020, 7, 89.	2.0	9
44	A Miniature Optical Fiber Fabry-Perot Interferometer Temperature Sensor Based on Tellurite Glass. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-6.	4.7	9
45	Theoretical Investigation of Mid-Infrared Temperature Sensing Based on Four-Wave Mixing in a CS ₂ -Filled GeAsSeTe Microstructured Optical Fiber. IEEE Sensors Journal, 2021, 21, 10711-10718.	4.7	8
46	Simultaneous Measurement of Temperature and Pressure Based on Ring-Shaped Sensing Structure With Polymer Coated No-Core Fiber. IEEE Sensors Journal, 2021, 21, 22783-22791.	4.7	7
47	Microstructured optical fiber temperature sensor based on the self-phase modulation effect. Optics Express, 2021, 29, 15653.	3.4	7
48	An Ultra-High Sensitivity Optical Fiber Refractive Index Sensor Based on Plasmonic Mach-Zehnder Interferometer. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	6
49	Temperature compensated fiber optic magnetic sensor based on the combination interference principle. Optics Letters, 2022, 47, 2558.	3.3	6
50	Highly sensitive refractive index sensor based on a D-shaped few-mode fiber with silver and graphene film. Optik, 2022, 267, 169653.	2.9	6
51	High Precision Optical Path Difference Compensation Method Based on Three-Parameter Cosine Fitting Method. Journal of Lightwave Technology, 2022, 40, 4911-4918.	4.6	4
52	Research on temperature sensing characteristics of fiber side-open cavity structure. Measurement: Journal of the International Measurement Confederation, 2022, 190, 110741.	5.0	1
53	In-fiber Surface Plasmon Resonance Temperature Sensor Based on PDMS Infiltrated Hollow Core Fiber. , 2019, , .		0
54	Refractive Index and Temperature Sensing with Sagnac-Mach Zehnder Hybrid Fiber Interferometer. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Numerical demonstration of mid-infrared temperature sensing by soliton self-frequency shift in a fluorotellurite microstructured fiber. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	0
56	Optical Fiber SPR Sensor for Highly-Sensitive Detection of Cholesterol Concentration. , 2020, , .		0