

Ya-nan Zhang

List of Publications by Year in descending order

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94
papers

3,056
citations

159585

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h-index

175258

52
g-index

94
all docs

94
docs citations

94
times ranked

2448
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on the graphene based optical fiber chemical and biological sensors. Sensors and Actuators B: Chemical, 2016, 231, 324-340.	7.8	267
2	A review for optical sensors based on photonic crystal cavities. Sensors and Actuators A: Physical, 2015, 233, 374-389.	4.1	159
3	Recent advancements in optical fiber hydrogen sensors. Sensors and Actuators B: Chemical, 2017, 244, 393-416.	7.8	152
4	Theoretical analysis of high-sensitive seawater temperature and salinity measurement based on C-type micro-structured fiber. Sensors and Actuators B: Chemical, 2018, 258, 822-828.	7.8	151
5	Fiber-optic sensors based on Vernier effect. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108451.	5.0	122
6	Simultaneous measurement of salinity, temperature and pressure in seawater using optical fiber SPR sensor. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106792.	5.0	111
7	Optical bio-chemical sensors based on whispering gallery mode resonators. Nanoscale, 2018, 10, 13832-13856.	5.6	109
8	Applications and developments of on-chip biochemical sensors based on optofluidic photonic crystal cavities. Lab on A Chip, 2018, 18, 57-74.	6.0	96
9	Optical fiber sensors for glucose concentration measurement: A review. Optics and Laser Technology, 2021, 139, 106981.	4.6	71
10	Measurement of methane concentration with cryptophane E infiltrated photonic crystal microcavity. Sensors and Actuators B: Chemical, 2015, 209, 431-437.	7.8	64
11	Optical fiber sensors for measurement of heavy metal ion concentration: A review. Measurement: Journal of the International Measurement Confederation, 2020, 158, 107742.	5.0	64
12	Two-Channel Surface Plasmon Resonance Sensor for Simultaneous Measurement of Seawater Salinity and Temperature. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7191-7199.	4.7	61
13	Review on the Optimazation Methods of Slow Light in Photonic Crystal Waveguide. IEEE Nanotechnology Magazine, 2015, 14, 407-426.	2.0	59
14	Optical Fiber Optofluidic Bio-chemical Sensors: A Review. Laser and Photonics Reviews, 2021, 15, 2000526.	8.7	59
15	A review of specialty fiber biosensors based on interferometer configuration. Journal of Biophotonics, 2021, 14, e202100068.	2.3	57
16	Review on Optical Fiber Sensors Based on the Refractive Index Tunability of Ferrofluid. Journal of Lightwave Technology, 2017, 35, 3406-3412.	4.6	54
17	Reflective SPR Sensor for Simultaneous Measurement of Nitrate Concentration and Temperature. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4566-4574.	4.7	53
18	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. Analytical Chemistry, 2021, 93, 10561-10567.	6.5	51

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19	Highly-sensitive and reflective glucose sensor based on optical fiber surface plasmon resonance. <i>Microchemical Journal</i> , 2020, 157, 105010.	4.5	50
20	Theoretical research of gas sensing method based on photonic crystal cavity and fiber loop ring-down technique. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 665-672.	7.8	44
21	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
22	Theoretical and experimental characterization of a salinity and temperature sensor employing optical fiber surface plasmon resonance (SPR). <i>Instrumentation Science and Technology</i> , 2020, 48, 601-615.	1.8	41
23	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
24	High-Sensitive Hydrogen Sensor Based on Photonic Crystal Fiber Model Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017, 66, 2198-2203.	4.7	37
25	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
26	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
27	Multi-component gas sensing based on slotted photonic crystal waveguide with liquid infiltration. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 179-188.	7.8	34
28	Reflective mercury ion and temperature sensor based on a functionalized no-core fiber combined with a fiber Bragg grating. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 331-339.	7.8	34
29	Multichannel Fiber Optic SPR Sensors: Realization Methods, Application Status, and Future Prospects. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	34
30	Electric Field Sensor Based on Photonic Crystal Cavity With Liquid Crystal Infiltration. <i>Journal of Lightwave Technology</i> , 2017, 35, 3440-3446.	4.6	33
31	Hydrogen sensor based on high-birefringence fiber loop mirror with sol-gel Pd/WO ₃ coating. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 71-76.	7.8	32
32	Simultaneous measurement of temperature and strain based on dual SPR effect in PCF. <i>Optics and Laser Technology</i> , 2019, 113, 46-51.	4.6	31
33	Optical fiber SPR biosensor based on gold nanoparticle amplification for DNA hybridization detection. <i>Talanta</i> , 2022, 247, 123599.	5.5	29
34	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
35	Beta-cyclodextrin based reflective fiber-optic SPR sensor for highly-sensitive detection of cholesterol concentration. <i>Optical Fiber Technology</i> , 2020, 56, 102187.	2.7	28
36	Miniature photonic crystal cavity sensor for simultaneous measurement of liquid concentration and temperature. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 563-571.	7.8	27

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37	Optical Fiber Sensors Based on Fiber Ring Laser Demodulation Technology. <i>Sensors</i> , 2018, 18, 505.	3.8	27
38	In-Line Mach-Zehnder Interferometer and FBG With Smart Hydrogel for Simultaneous pH and Temperature Detection. <i>IEEE Sensors Journal</i> , 2018, 18, 7499-7504.	4.7	27
39	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128681.	7.8	27
40	Wideband Slow Light With Large Group Index and Low Dispersion in Slotted Photonic Crystal Waveguide. <i>Journal of Lightwave Technology</i> , 2012, 30, 2812-2817.	4.6	26
41	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
42	Fiber Loop Ring-Down Refractive Index Sensor Based on High-Q Photonic Crystal Cavity. <i>IEEE Sensors Journal</i> , 2014, 14, 1878-1885.	4.7	25
43	Reflex optical fiber probe for simultaneous determination of seawater salinity and temperature by surface plasmon resonance. <i>Instrumentation Science and Technology</i> , 2019, 47, 374-388.	1.8	25
44	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
45	Low cost non-adiabatic tapered fiber for high-sensitive temperature sensing. <i>Optical Fiber Technology</i> , 2018, 45, 53-57.	2.7	23
46	Reflective Fiber Surface Plasmon Resonance Sensor for High-Sensitive Mercury Ion Detection. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1480.	2.5	23
47	Magnetic field sensor based on ring WGM resonator infiltrated with magnetic fluid. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165701.	2.3	23
48	Experimental and numerical investigation on hollow core photonic crystal fiber based bending sensor. <i>Optics Express</i> , 2019, 27, 30629.	3.4	22
49	Simultaneous Measurement of Magnetic Field and Temperature Based on Magnetic Fluid-Infiltrated Photonic Crystal Cavity. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1055-1062.	4.7	21
50	Erbium-doped fiber ring laser with SMS modal interferometer for hydrogen sensing. <i>Optics and Laser Technology</i> , 2018, 102, 262-267.	4.6	20
51	Optimization of Slow Light in Slotted Photonic Crystal Waveguide With Liquid Infiltration. <i>Journal of Lightwave Technology</i> , 2013, 31, 2448-2454.	4.6	19
52	High-Sensitive Fiber Anemometer Based on Surface Plasmon Resonance Effect in Photonic Crystal Fiber. <i>IEEE Sensors Journal</i> , 2019, 19, 3391-3398.	4.7	19
53	Research on Fabrication and Sensing Properties of Fiber-Coupled Whispering Gallery Mode Microsphere Resonator. <i>IEEE Sensors Journal</i> , 2020, 20, 833-841.	4.7	17
54	Characteristics of a new multi-channel sensing device based on C-type photonic crystal fibers. <i>Optics and Laser Technology</i> , 2021, 134, 106622.	4.6	17

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55	Polydimethylsiloxane self-assembled whispering gallery mode microbottle resonator for ethanol sensing. <i>Optical Materials</i> , 2020, 107, 110024.	3.6	16
56	Dispersion Engineering of Slow Light in Ellipse-Shaped-Hole Slotted Photonic Crystal Waveguide. <i>Journal of Lightwave Technology</i> , 2014, 32, 2144-2151.	4.6	15
57	Photonic crystal fiber modal interferometer with Pd/WO ₃ coating for real-time monitoring of dissolved hydrogen concentration in transformer oil. <i>Review of Scientific Instruments</i> , 2016, 87, 125002.	1.3	15
58	A New Hydrogen Sensor Based on SNS Fiber Interferometer with Pd/WO ₃ Coating. <i>Sensors</i> , 2017, 17, 2144.	3.8	15
59	Simultaneous Measurement of Electric Field and Strain With a Tandem-Interferometric Device. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 965-970.	4.7	15
60	Novel Fiber Grating for Sensing Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800820.	1.8	15
61	Slow-Light Optimization of Polymer-Infiltrated Slot Photonic Crystal Waveguide. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 687-694.	2.0	13
62	Simultaneous Measurement of Hydrogen Concentration and Temperature Based on Fiber Loop Mirror Combined With PCF. <i>IEEE Sensors Journal</i> , 2018, 18, 2369-2376.	4.7	12
63	Fiber-Optic SPR pH Sensor Based on MMFâ€“NCFâ€“MMF Structure and Self-Assembled Nanofilm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	11
64	Optical Fiber SPR Sensor With Surface Ion Imprinting for Highly Sensitive and Highly Selective Ni ²⁺ Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-6.	4.7	11
65	High Sensitive BOTDR Demodulation Method by Using Slow-Light in Fiber Grating. <i>Journal of Lightwave Technology</i> , 2013, 31, 3345-3351.	4.6	10
66	Theoretical Design and Simulation Optimization of Photonic Crystal Cavity for Tetrahydrofuran Vapor Sensing. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900221.	1.5	9
67	High-resolution, large-dynamic-range multimode interferometer sensor based on a suspended-core microstructured optical fiber. <i>Optics Letters</i> , 2020, 45, 1017.	3.3	9
68	Characterization of displacement sensing based on fiber optic microbend losses. <i>Instrumentation Science and Technology</i> , 2016, 44, 471-482.	1.8	8
69	All-fiber Machâ€“Zehnder interferometer with dual-waist PCF structure for highly sensitive refractive index sensing. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	8
70	Capillary encapsulated reflective fiber optic SPR temperature sensor. <i>Physica Scripta</i> , 2019, 94, 045504.	2.5	8
71	Highly sensitive salinity sensor based on Mach-Zehnder interferometer with double-C fiber. <i>Fundamental Research</i> , 2022, 2, 296-302.	3.3	8
72	Characterization of infrared gas sensors employing hollow-core photonic crystal fibers. <i>Instrumentation Science and Technology</i> , 2016, 44, 495-503.	1.8	7

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73	REVIEW ON STRUCTURES AND PRINCIPLES OF GAS CELLS IN THE ABSORPTION SPECTRUM-BASED OPTICAL FIBER GAS SENSOR SYSTEMS. Instrumentation Science and Technology, 2012, 40, 385-401.	1.8	6
74	HIGH-SENSITIVITY OPTICAL FIBER GAS SENSORS BASED ON NOVEL OPTICAL DEVICES. Instrumentation Science and Technology, 2013, 41, 187-201.	1.8	6
75	SIMULTANEOUS MEASUREMENT OF STRAIN AND TEMPERATURE WITH POLARIZATION MAINTAINING FIBER BRAGG GRATING LOOP MIRROR. Instrumentation Science and Technology, 2014, 42, 298-307.	1.8	6
76	A reflective hydrogen sensor based on fiber ring laser with PCF modal interferometer. Journal of Optics (United Kingdom), 2018, 20, 065401.	2.2	5
77	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
78	Theoretical Research on the Thermal-Lens Effect of Magnetic Fluid by Using Brownian Dynamics Method. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	3
79	A NOVEL BRILLOUIN OPTICAL TIME-DOMAIN REFLECTOMETER DEMODULATING METHOD BASED ON A SLOW-LIGHT MACH-ZEHNDER INTERFEROMETER. Instrumentation Science and Technology, 2014, 42, 290-297.	1.8	2
80	Non-contact flow rate detection of component in mixed gas using spectrum absorption theory. Optical Fiber Technology, 2018, 45, 167-172.	2.7	2
81	Fiber loop ring-down refractive index sensor based on high-Q photonic crystal cavity. , 2012, , .		1
82	Theoretical Research on Optofluidic Photonic Crystal Waveguide for Broadly Tunable and Ultra-Wideband Slow Light. International Journal of Optomechatronics, 2014, 8, 114-128.	6.6	1
83	Design of highly-sensitive fiber thermal anemometer based on reflective photonic crystal fiber loop mirror. Optical Fiber Technology, 2020, 54, 102114.	2.7	1
84	Highly-Sensitive SPR Urea Biosensor Based on Urease Immobilized in Metal-Organic Zeolite Framework. , 2021, , .		1
85	Experimental Research on Ethanol Gas Sensing Characteristics of Microbottle Resonator Based on Whispering Gallery Mode. , 2021, , .		1
86	Two-core photonic crystal fiber with selective liquid infiltration in the central air hole for temperature sensing. OSA Continuum, 2020, 3, 2264.	1.8	1
87	Investigation of Volatile Organic Compound Gas Sensor Based on Polydimethylsiloxane Self-Assembled Fabry-Perot Interferometer. , 2020, , .		1
88	A Relative Humidity Sensor Based on Non-Adiabatic Tapered Optical Fiber for Remote Measurement in Power Cable Tunnel. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	1
89	High-sensitive refractive index sensor based on slow light engineered photonic crystal cavity. , 2014, , .		0
90	Optimization of photonic crystal fiber for optical hydrogen sensing. , 2017, , .		0

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91	In-fiber Surface Plasmon Resonance Temperature Sensor Based on PDMS Infiltrated Hollow Core Fiber. , 2019, , .		0
92	Highly-sensitive ethanol gas sensor based on poly dimethylsiloxane coated micro-nano fiber. , 2020, , .		0
93	Highly-sensitive mercury ion sensor based on DNA modified micro-nano fiber. , 2020, , .		0
94	Optical Fiber SPR Sensor for Highly-Sensitive Detection of Cholesterol Concentration. , 2020, , .		0