

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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52
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94
all docs

94
docs citations

94
times ranked

2448
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	Highly sensitive salinity sensor based on Mach-Zehnder interferometer with double-C fiber. <i>Fundamental Research</i> , 2022, 2, 296-302.	3.3	8
3	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
4	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
5	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
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	A Relative Humidity Sensor Based on Non-Adiabatic Tapered Optical Fiber for Remote Measurement in Power Cable Tunnel. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.	4.7	1
8	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
9	Optical fiber SPR biosensor based on gold nanoparticle amplification for DNA hybridization detection. <i>Talanta</i> , 2022, 247, 123599.	5.5	29
10	Multichannel Fiber Optic SPR Sensors: Realization Methods, Application Status, and Future Prospects. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	34
11	Fiber-optic sensors based on Vernier effect. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108451.	5.0	122
12	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
13	A review of specialty fiber biosensors based on interferometer configuration. <i>Journal of Biophotonics</i> , 2021, 14, e202100068.	2.3	57
14	Optical Fiber Optofluidic Bio-chemical Sensors: A Review. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000526.	8.7	59
15	Optical fiber sensors for glucose concentration measurement: A review. <i>Optics and Laser Technology</i> , 2021, 139, 106981.	4.6	71
16	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
17	Fiber-Optic SPR pH Sensor Based on MMF-NCF-MMF Structure and Self-Assembled Nanofilm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	11
18	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

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19	Highly-Sensitive SPR Urea Biosensor Based on Urease Immobilized in Metal-Organic Zeolite Framework. , 2021, , .		1
20	Experimental Research on Ethanol Gas Sensing Characteristics of Microbottle Resonator Based on Whispering Gallery Mode. , 2021, , .		1
21	Magnetic field sensor based on ring WGM resonator infiltrated with magnetic fluid. Journal of Magnetism and Magnetic Materials, 2020, 493, 165701.	2.3	23
22	Research on Fabrication and Sensing Properties of Fiber-Coupled Whispering Gallery Mode Microsphere Resonator. IEEE Sensors Journal, 2020, 20, 833-841.	4.7	17
23	Design of highly-sensitive fiber thermal anemometer based on reflective photonic crystal fiber loop mirror. Optical Fiber Technology, 2020, 54, 102114.	2.7	1
24	Highly-sensitive ethanol gas sensor based on poly dimethylsiloxane coated micro-nano fiber. , 2020, , .		0
25	All-fiber all-optical quantitative polymerase chain reaction (qPCR). Sensors and Actuators B: Chemical, 2020, 323, 128681.	7.8	27
26	Highly-sensitive mercury ion sensor based on DNA modified micro-nano fiber. , 2020, , .		0
27	Theoretical and experimental characterization of a salinity and temperature sensor employing optical fiber surface plasmon resonance (SPR). Instrumentation Science and Technology, 2020, 48, 601-615.	1.8	41
28	Highly-sensitive and reflective glucose sensor based on optical fiber surface plasmon resonance. Microchemical Journal, 2020, 157, 105010.	4.5	50
29	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
30	Beta-cyclodextrin based reflective fiber-optic SPR sensor for highly-sensitive detection of cholesterol concentration. Optical Fiber Technology, 2020, 56, 102187.	2.7	28
31	Polydimethylsiloxane self-assembled whispering gallery mode microbottle resonator for ethanol sensing. Optical Materials, 2020, 107, 110024.	3.6	16
32	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
33	High-resolution, large-dynamic-range multimode interferometer sensor based on a suspended-core microstructured optical fiber. Optics Letters, 2020, 45, 1017.	3.3	9
34	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
35	Optical Fiber SPR Sensor for Highly-Sensitive Detection of Cholesterol Concentration. , 2020, , .		0
36	Investigation of Volatile Organic Compound Gas Sensor Based on Polydimethylsiloxane Self-Assembled Fabry-Perot Interferometer. , 2020, , .		1

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37	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
38	Theoretical Design and Simulation Optimization of Photonic Crystal Cavity for Tetrahydrofuran Vapor Sensing. Physica Status Solidi (B): Basic Research, 2019, 256, 1900221.	1.5	9
39	Reflex optical fiber probe for simultaneous determination of seawater salinity and temperature by surface plasmon resonance. Instrumentation Science and Technology, 2019, 47, 374-388.	1.8	25
40	Simultaneous measurement of temperature and strain based on dual SPR effect in PCF. Optics and Laser Technology, 2019, 113, 46-51.	4.6	31
41	All-fiber Mach-Zehnder interferometer with dual-waist PCF structure for highly sensitive refractive index sensing. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	8
42	Reflective Fiber Surface Plasmon Resonance Sensor for High-Sensitive Mercury Ion Detection. Applied Sciences (Switzerland), 2019, 9, 1480.	2.5	23
43	Capillary encapsulated reflective fiber optic SPR temperature sensor. Physica Scripta, 2019, 94, 045504.	2.5	8
44	Novel Fiber Grating for Sensing Applications. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800820.	1.8	15
45	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
46	High-Sensitive Fiber Anemometer Based on Surface Plasmon Resonance Effect in Photonic Crystal Fiber. IEEE Sensors Journal, 2019, 19, 3391-3398.	4.7	19
47	In-fiber Surface Plasmon Resonance Temperature Sensor Based on PDMS Infiltrated Hollow Core Fiber. , 2019, , .		0
48	Reflective SPR Sensor for Simultaneous Measurement of Nitrate Concentration and Temperature. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4566-4574.	4.7	53
49	Experimental and numerical investigation on hollow core photonic crystal fiber based bending sensor. Optics Express, 2019, 27, 30629.	3.4	22
50	Erbium-doped fiber ring laser with SMS modal interferometer for hydrogen sensing. Optics and Laser Technology, 2018, 102, 262-267.	4.6	20
51	A reflective hydrogen sensor based on fiber ring laser with PCF modal interferometer. Journal of Optics (United Kingdom), 2018, 20, 065401.	2.2	5
52	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
53	Simultaneous Measurement of Hydrogen Concentration and Temperature Based on Fiber Loop Mirror Combined With PCF. IEEE Sensors Journal, 2018, 18, 2369-2376.	4.7	12
54	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

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55	Theoretical analysis of high-sensitive seawater temperature and salinity measurement based on C-type micro-structured fiber. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 822-828.	7.8	151
56	Low cost non-adiabatic tapered fiber for high-sensitive temperature sensing. <i>Optical Fiber Technology</i> , 2018, 45, 53-57.	2.7	23
57	Optical bio-chemical sensors based on whispering gallery mode resonators. <i>Nanoscale</i> , 2018, 10, 13832-13856.	5.6	109
58	Optical Fiber Sensors Based on Fiber Ring Laser Demodulation Technology. <i>Sensors</i> , 2018, 18, 505.	3.8	27
59	Non-contact flow rate detection of component in mixed gas using spectrum absorption theory. <i>Optical Fiber Technology</i> , 2018, 45, 167-172.	2.7	2
60	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
61	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
62	Review on Optical Fiber Sensors Based on the Refractive Index Tunability of Ferrofluid. <i>Journal of Lightwave Technology</i> , 2017, 35, 3406-3412.	4.6	54
63	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
64	Recent advancements in optical fiber hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 393-416.	7.8	152
65	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
66	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
67	Optimization of photonic crystal fiber for optical hydrogen sensing. , 2017, , .		0
68	Theoretical Research on the Thermal-Lens Effect of Magnetic Fluid by Using Brownian Dynamics Method. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-7.	2.1	3
69	A New Hydrogen Sensor Based on SNS Fiber Interferometer with Pd/WO ₃ Coating. <i>Sensors</i> , 2017, 17, 2144.	3.8	15
70	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
71	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
72	Characterization of displacement sensing based on fiber optic microbend losses. <i>Instrumentation Science and Technology</i> , 2016, 44, 471-482.	1.8	8

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73	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
74	Characterization of infrared gas sensors employing hollow-core photonic crystal fibers. <i>Instrumentation Science and Technology</i> , 2016, 44, 495-503.	1.8	7
75	Review on the graphene based optical fiber chemical and biological sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 324-340.	7.8	267
76	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
77	Review on the Optimization Methods of Slow Light in Photonic Crystal Waveguide. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 407-426.	2.0	59
78	A review for optical sensors based on photonic crystal cavities. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 374-389.	4.1	159
79	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
80	Measurement of methane concentration with cryptophane E infiltrated photonic crystal microcavity. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 431-437.	7.8	64
81	A NOVEL BRILLOUIN OPTICAL TIME-DOMAIN REFLECTOMETER DEMODULATING METHOD BASED ON A SLOW-LIGHT MACH-ZEHNDER INTERFEROMETER. <i>Instrumentation Science and Technology</i> , 2014, 42, 290-297.	1.8	2
82	Theoretical Research on Optofluidic Photonic Crystal Waveguide for Broadly Tunable and Ultra-Wideband Slow Light. <i>International Journal of Optomechatronics</i> , 2014, 8, 114-128.	6.6	1
83	High-sensitive refractive index sensor based on slow light engineered photonic crystal cavity. , 2014, , .		0
84	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
85	Fiber Loop Ring-Down Refractive Index Sensor Based on High- γ Photonic Crystal Cavity. <i>IEEE Sensors Journal</i> , 2014, 14, 1878-1885.	4.7	25
86	SIMULTANEOUS MEASUREMENT OF STRAIN AND TEMPERATURE WITH POLARIZATION MAINTAINING FIBER BRAGG GRATING LOOP MIRROR. <i>Instrumentation Science and Technology</i> , 2014, 42, 298-307.	1.8	6
87	Slow-Light Optimization of Polymer-Infiltrated Slot Photonic Crystal Waveguide. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 687-694.	2.0	13
88	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
89	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
90	HIGH-SENSITIVITY OPTICAL FIBER GAS SENSORS BASED ON NOVEL OPTICAL DEVICES. <i>Instrumentation Science and Technology</i> , 2013, 41, 187-201.	1.8	6

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91	High Sensitive BOTDR Demodulation Method by Using Slow-Light in Fiber Grating. Journal of Lightwave Technology, 2013, 31, 3345-3351.	4.6	10
92	Fiber loop ring-down refractive index sensor based on high-Q photonic crystal cavity. , 2012, , .		1
93	Wideband Slow Light With Large Group Index and Low Dispersion in Slotted Photonic Crystal Waveguide. Journal of Lightwave Technology, 2012, 30, 2812-2817.	4.6	26
94	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