Xing-Dao He

List of Publications by Year
in descending order

48 papers	708 citations	567281 15 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	839 citing authors

#	Article	IF	Citations
1	Singlemode-Multimode-Singlemode Fiber Structures for Sensing Applicationsâ€"A Review. IEEE Sensors Journal, 2021, 21, 12734-12751.	4.7	78
2	Hollow Core Fiber Based Interferometer for High-Temperature (1000 Â°C) Measurement. Journal of Lightwave Technology, 2018, 36, 1583-1590.	4.6	59
3	Ultrahigh-sensitivity label-free optical fiber biosensor based on a tapered singlemode- no core-singlemode coupler for Staphylococcus aureus detection. Sensors and Actuators B: Chemical, 2020, 320, 128283.	7.8	58
4	High sensitivity optical fiber sensors for simultaneous measurement of methanol and ethanol. Sensors and Actuators B: Chemical, 2018, 271, 1-8.	7.8	45
5	Simultaneous monitoring of temporal profiles of NO3, NO2 and O3 by incoherent broadband cavity enhanced absorption spectroscopy for atmospheric applications. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 199-205.	2.3	32
6	Energy level control: toward an efficient hot electron transport. Scientific Reports, 2014, 4, 5983.	3.3	32
7	Temperature dependence of threshold and gain coefficient of stimulated Brillouin scattering in water. Applied Physics B: Lasers and Optics, 2012, 108, 717-720.	2.2	31
8	Ultrasensitive biosensor based on magnetic microspheres enhanced microfiber interferometer. Biosensors and Bioelectronics, 2019, 145, 111563.	10.1	29
9	Acoustic radiation force optical coherence elastography for elasticity assessment of soft tissues. Applied Spectroscopy Reviews, 2019, 54, 457-481.	6.7	25
10	Pumping effect of stimulated Brillouin scattering on stimulated Raman scattering in water. Physical Review A, 2009, 80, .	2.5	24
11	Investigation of a Side-Polished Fiber MZI and Its Sensing Performance. IEEE Sensors Journal, 2020, 20, 5909-5914.	4.7	21
12	Novel Microfiber Sensor and Its Biosensing Application for Detection of hCG Based on a Singlemode-Tapered Hollow Core-Singlemode Fiber Structure. IEEE Sensors Journal, 2020, 20, 9071-9078.	4.7	20
13	Compact Hollow Waveguide Mid-Infrared Gas Sensor For Simultaneous Measurements of Ambient CO₂ and Water Vapor. Journal of Lightwave Technology, 2020, 38, 4580-4587.	4.6	18
14	Perspective: Current challenges and solutions of Doppler optical coherence tomography and angiography for neuroimaging. APL Photonics, 2018, 3, .	5.7	16
15	Stimulated Brillouin scattering in combination with visible absorption spectroscopy for authentication of vegetable oils and detection of olive oil adulteration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 320-327.	3.9	16
16	Stimulated scattering effects in gold-nanorod-water samples pumped by 532 nm laser pulses. Scientific Reports, 2015, 5, 11964.	3.3	14
17	Performance comparison of fluorinated and chlorinated donorâ€"acceptor copolymers for polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 4658-4662.	5.5	14
18	Real-Time Monitoring of ¹³C- and ¹⁸O-Isotopes of Human Breath CO₂ Using a Mid-Infrared Hollow Waveguide Gas Sensor. Analytical Chemistry, 2020, 92, 12943-12949.	6.5	14

#	Article	IF	Citations
19	All-optical diode structure based on asymmetrical coupling by a micro-cavity and FP cavity at two sides of photonic crystal waveguide. AIP Advances, 2016, 6, .	1.3	13
20	Measurement of the D/H, 18O/16O, and 17O/16O Isotope Ratios in Water by Laser Absorption Spectroscopy at 2.73 Î¼m. Sensors, 2014, 14, 9027-9045.	3.8	12
21	High Temperature (Up to 950 Â°C) Sensor Based on Micro Taper In-Line Fiber Machâ€“Zehnder Interferometer. Applied Sciences (Switzerland), 2019, 9, 2394.	2.5	12
22	Mach-Zehnder Interferometer for High Temperature (1000 Â°C) Sensing Based on a Few-Mode Fiber. Photonic Sensors, 2021, 11, 341-349.	5.0	12
23	Measurement of Temperature-Dependent Bulk Viscosities of Nitrogen, Oxygen and Air From Spontaneous Rayleigh-Brillouin Scattering. IEEE Access, 2019, 7, 136439-136451.	4.2	11
24	Tapered Microfiber MZI Biosensor for Highly Sensitive Detection of Staphylococcus Aureus. IEEE Sensors Journal, 2022, 22, 5531-5539.	4.7	11
25	Raman spectroscopy for the discrimination and quantification of fuel blends. Journal of Raman Spectroscopy, 2019, 50, 1008-1014.	2.5	10
26	Sensing Characteristics of Fiber Fabry-Perot Sensors Based on Polymer Materials. IEEE Access, 2020, 8, 171316-171324.	4.2	10
27	Influence of Light Coupling Configuration and Alignment on the Stability of HWG-Based Gas Sensor System for Real-Time Detection of Exhaled Carbon Dioxide. IEEE Sensors Journal, 2019, 19, 11972-11979.	4.7	9
28	Intrusion Location Technology of Sagnac Distributed Fiber Optical Sensing System Based on Deep Learning. IEEE Sensors Journal, 2021, 21, 13327-13334.	4.7	9
29	Fiber Ring Laser Based on Side-Polished Fiber MZI for Enhancing Refractive Index and Torsion Measurement. IEEE Sensors Journal, 2022, 22, 7779-7784.	4.7	9
30	All-thiophene-substituted N-heteroacene electron-donor materials for efficient organic solar cells. Journal of Materials Chemistry A, 2016, 4, 13519-13524.	10.3	7
31	Investigation of the influence of temperature on threshold value and pulse duration of stimulated Brillouin scattering in liquid water. Journal of Modern Optics, 2012, 59, 1410-1414.	1.3	6
32	Experimental study on stimulated scattering of ZnO nanospheres dispersed in water. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	6
33	Comparative Study on Sensing Properties of Fiber-Coupled Microbottle Resonators With Polymer Materials. IEEE Sensors Journal, 2021, 21, 26681-26689.	4.7	5
34	Spontaneous Rayleigh-Brillouin scattering spectral analysis based on the Wiener filter. AIP Advances, 2018, 8, 015210.	1.3	4
35	Multiple Competition Processes Between Stimulated Brillouin and Raman Scattering in a Sulfate Aqueous Solution. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	3
36	Tapered Side-Polished Microfibre Sensor for High Sensitivity hCG Detection. IEEE Sensors Journal, 2022, 22, 7727-7733.	4.7	3

#	ARTICLE	IF	CITATIONS
37	Spatial confinement effects of laser-induced breakdown spectroscopy at reduced air pressures. Frontiers of Optoelectronics, 2022, 15, .	3.7	3
38	A Laser-Locked Hollow Waveguide Gas Sensor for Simultaneous Measurements of CO₂ Isotopologues with High Accuracy, Precision, and Sensitivity. Analytical Chemistry, 2021, 93, 15468-15473.	6.5	2
39	Boltzmann constant determined by fluorescent spectroscopy for verifying thermometers. Frontiers of Optoelectronics, 2014, 7, 64-68.	3.7	1
40	An efficient method for discriminating four important edible oils based on stimulated Brillouin scattering spectroscopy. Analytical Methods, 2018, 10, 3859-3863.	2.7	1
41	Measurement of Bulk Viscosity of CO2 Based on Spontaneous Rayleigh-Brillouin Scattering. IEEE Access, 2020, 8, 40909-40917.	4.2	1
42	Efficient Processing of Spectral Measurements Using Virtually Imaged Phased Array. IEEE Photonics Technology Letters, 2021, 33, 177-180.	2.5	1
43	Simulated biomechanical effect of aspheric transition zone ablation profiles after conventional hyperopia refractive surgery. Mathematical Biosciences and Engineering, 2021, 18, 2442-2454.	1.9	1
44	Laser pulse compression method to measure Brillouin gain in water. Journal of Modern Optics, 2015, 62, 877-882.	1.3	0
45	The effect of pressure on spontaneous Rayleighâ€“Brillouin scattering spectrum in nitrogen. Journal of Modern Optics, 2018, 65, 970-977.	1.3	0
46	Ultrasensitive Microfiber Refractive Index Sensor Based on Mach-Zehnder Interference of Core Offset Structure. , 2019, , .		0
47	High sensitivity biosensor for Staphylococcus Aureus detection based on tapered a singlemode-no core-singlemode fiber structure. , 2019, , .		0
48	Use of spectral domain optical coherence tomography to detect internal defects of resin composites in carious teeth after restorations. Journal of Modern Optics, 2020, 67, 1509-1515.	1.3	0