Zhengying Li

List of Publications by Year
in descending order

63 papers	605 citations	567144 15 h-index	677027 22 g-index
63 all docs	63 docs citations	63 times ranked	457 citing authors

#	Article	IF	Citations
1	Simultaneous distributed static and dynamic sensing based on ultra-short fiber Bragg gratings. Optics Express, 2018, 26, 17437.	1.7	49
2	A Novel Monitoring Approach for Train Tracking and Incursion Detection in Underground Structures Based on Ultra-Weak FBG Sensing Array. Sensors, 2019, 19, 2666.	2.1	33
3	Surface intrusion event identification for subway tunnels using ultra-weak FBG array based fiber sensing. Optics Express, 2020, 28, 6794.	1.7	31
4	A High-Speed Distributed Ultra-Weak FBG Sensing System With High Resolution. IEEE Photonics Technology Letters, 2017, 29, 1249-1252.	1.3	30
5	Identification of Ground Intrusion in Underground Structures Based on Distributed Structural Vibration Detected by Ultra-Weak FBG Sensing Technology. Sensors, 2019, 19, 2160.	2.1	30
6	Temperature-Insensitive Vibration Sensor With Kagomé Hollow-Core Fiber Based Fabry–Perot Interferometer. Journal of Lightwave Technology, 2019, 37, 2261-2269.	2.7	28
7	High-Speed Mach-Zehnder-OTDR Distributed Optical Fiber Vibration Sensor Using Medium-Coherence Laser. Photonic Sensors, 2018, 8, 203-212.	2.5	25
8	Large-scale multiplexing of a FBG array with randomly varied characteristic parameters for distributed sensing. Optics Letters, 2018, 43, 5259.	1.7	23
9	Applying Deep Learning to Continuous Bridge Deflection Detected by Fiber Optic Gyroscope for Damage Detection. Sensors, 2020, 20, 911.	2.1	22
10	High-speed demodulation of weak fiber Bragg gratings based on microwave photonics and chromatic dispersion. Optics Letters, 2018, 43, 2430.	1.7	19
11	Multi-Feature Manifold Discriminant Analysis for Hyperspectral Image Classification. Remote Sensing, 2019, 11, 651.	1.8	19
12	Distributed temperature sensing system based on a densely spaced FBG array for small fire recognition. Measurement: Journal of the International Measurement Confederation, 2021, 179, 109406.	2.5	19
13	An FBG Displacement Sensor in Deformation Monitoring of Subway Floating Slab. IEEE Sensors Journal, 2021, 21, 2963-2971.	2.4	18
14	Delay Calibration Method for Wavelength-Swept Laser-Based FBG Demodulation System. IEEE Photonics Technology Letters, 2014, 26, 2090-2092.	1.3	16
15	Cortex-wide multiparametric photoacoustic microscopy based on real-time contour scanning. Neurophotonics, 2019, 6, 1.	1.7	16
16	Micro-Cavity Array With High Accuracy for Fully Distributed Optical Fiber Sensing. Journal of Lightwave Technology, 2019, 37, 927-932.	2.7	15
17	Manifold-Based Multi-Deep Belief Network for Feature Extraction of Hyperspectral Image. Remote Sensing, 2022, 14, 1484.	1.8	14
18	High-speed interrogation system of multi-encoding weak FBGs based on FDML wavelength swept laser. Optics and Laser Technology, 2018, 107, 54-58.	2.2	13

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19	Performance Optimization Design for a High-Speed Weak FBG Interrogation System Based on DFB Laser. Sensors, 2017, 17, 1472.	2.1	12
20	Fiber-Based Large Dynamic Range Vibration Sensing With Dual-Wavelength Phase Unwrapping. Journal of Lightwave Technology, 2019, 37, 6090-6096.	2.7	11
21	Spatial-Spectral Multiple Manifold Discriminant Analysis for Dimensionality Reduction of Hyperspectral Imagery. Remote Sensing, 2019, 11, 2414.	1.8	10
22	Precision Dynamic Sensing With Ultra-Weak Fiber Bragg Grating Arrays by Wavelength to Frequency Transform. Journal of Lightwave Technology, 2019, 37, 3526-3531.	2.7	9
23	Synergistic engineering of bromine and cetyltrimethylammonium chloride molecules enabling efficient and stable flexible perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 19425-19433.	5.2	9
24	Classifying Tunnel Anomalies Based on Ultraweak FBGs Signal and Transductive RVM Combined With Gaussian Mixture Model. IEEE Sensors Journal, 2020, 20, 6012-6019.	2.4	9
25	Research of High-Speed FBG Demodulation System for Distributed Dynamic Monitoring of Mechanical Equipment. Advances in Mechanical Engineering, 2013, 5, 107073.	0.8	9
26	Delay-disorder fiber Bragg grating recognition and calibration method for a Fourier domain mode-locked wavelength-swept laser-based interrogation system. Applied Optics, 2018, 57, 8148.	0.9	8
27	Thermal Error Modeling for Heavy Duty CNC Machine Tool Based on Convolution Neural Network. , 2019, , .		8
28	Intrusion identification using GMM-HMM for perimeter monitoring based on ultra-weak FBG arrays. Optics Express, 2022, 30, 17307.	1.7	8
29	High-Density Distributed Crack Tip Sensing System Using Dense Ultra-Short FBG Sensors. Sensors, 2019, 19, 1702.	2.1	7
30	Combining SDAE Network with Improved DTW Algorithm for Similarity Measure of Ultra-Weak FBG Vibration Responses in Underground Structures. Sensors, 2020, 20, 2179.	2.1	7
31	Noise resilient quasi-distributed sensing with an interferometric-noise-suppressing Golay coded optical source. Optics Express, 2019, 27, 25330.	1.7	7
32	Optical Gas Sensor Based on Gas Conjugated Interference Light Source. IEEE Photonics Technology Letters, 2015, 27, 1550-1552.	1.3	6
33	Research on a high-precision calibration method for tunable lasers. Measurement Science and Technology, 2018, 29, 035201.	1.4	6
34	Signal Processing for Time Domain Wavelengths of Ultra-Weak FBGs Array in Perimeter Security Monitoring Based on Spark Streaming. Sensors, 2018, 18, 2937.	2.1	6
35	Implementation of hardware TCP/IP stack for DAQ systems with flexible data channel. Electronics Letters, 2017, 53, 530-532.	0.5	5
36	Parallel Computing for Quantitative Blood Flow Imaging in Photoacoustic Microscopy. Sensors, 2019, 19, 4000.	2.1	5

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37	An Integrated Design of Ultra-High-Speed FBG Interrogation System-Based on FDML Laser. IEEE Photonics Technology Letters, 2020, 32, 1245-1248.	1.3	5
38	High dynamic range distributed acoustic sensing based on dual-wavelength fiber Bragg grating pairs. Optics Letters, 2021, 46, 4402.	1.7	5
39	Coherent-detection-based distributed acoustic impedance sensing enabled by a chirped fiber Bragg grating array. Photonics Research, 2022, 10, 1325.	3.4	5
40	Accurate and Fast Wavelength Demodulation for Fbg Reflected Spectrum Using Multilayer Perceptron (Mlp) Neural Network. , 2020, , .		3
41	Design and characterization of high birefringence three suspended-cores fiber with few-mode. Optik, 2021, 244, 167473.	1.4	3
42	FPGA-Based Dynamic Wavelength Interrogation System for Thousands of Identical FBG Sensors. Photonics, 2022, 9, 79.	0.9	3
43	Study and implementation of voiceprint identity authentication for Android mobile terminal. , 2017, , .		2
44	A distributed ensemble of relevance vector machines for large-scale data sets on Spark. Soft Computing, 2021, 25, 7119-7130.	2.1	2
45	Optimization of hydrogen fuel cell model based on firefly algorithm. , 2021, , .		2
46	Wear measurement based on the length variation of a sacrificial FBG. Optics Express, 2020, 28, 23189.	1.7	2
47	Behaviors of Photosensitive Mechanisms in a Low-Loss Fiber at Different Energy Densities. Journal of Lightwave Technology, 2022, 40, 2530-2534.	2.7	2
48	The design and implement of the cross-platform mobile automated testing framework. , 2016, , .		1
49	Distributed FBG Vibration Sensing Based on OFDR Employing a DFB-LD. , 2018, , .		1
50	The Research of Vibration Detection Using the Visual Microphone Technology. , 2018, , .		1
51	Research and Implementation of Super High-Speed Fiber Bragg Grating Demodulator. , 2019, , .		1
52	3D-Shape Reduction System Based on Multi-Core Fiber. , 2019, , .		1
53	Demodulation Method of Identical Ultra-Weak Fiber Bragg Grating Array Based on Golay Code. , 2019, , .		1
54	Surface Intrusion Recognition Method for Subway Tunnel Security System. , 2020, , .		1

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55	Fire Monitoring System for Hydrogen energy ship. , 2021, , .		1
56	Numerical simulation of optical refractometric sensing of multiple disease markers based on lab-in-a-fiber. Optics Express, 2022, 30, 20783.	1.7	1
57	Entity Hierarchy Construction for Repair Request Records. , 2016, , .		0
58	Research on multi-component gas optical detection system based on conjugated interferometer. Photonic Sensors, 2017, 7, 261-269.	2.5	0
59	High Speed Demodulation System of FBG-EFPI Hybrid Sensor Based on Fourier Domain Mode-Locked Laser. , 2019, , .		0
60	The High Spatial Resolution Demodulation Method of FBGs Based on the Section Demodulation and OTDR. , 2019, , .		0
61	Optical Fiber Extrinsic Fabry-Perot Interferometric Sensor for Large-Strain Measurement. , 2019, , .		0
62	High-Spatial Resolution Demodulation of Weak FBGs Based on Incoherent Optical Frequency Domain Reflectometry Using a Chaotic laser. , 2019, , .		0
63	Sound Source Localization with Enhanced Distributed Acoustic Sensing Based on Fiber Bragg Gratings. , 2021, , .		0