

Zhengying Li

List of Publications by Year in descending order

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63
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457
citing authors

#	ARTICLE	IF	CITATIONS
1	Behaviors of Photosensitive Mechanisms in a Low-Loss Fiber at Different Energy Densities. Journal of Lightwave Technology, 2022, 40, 2530-2534.	2.7	2
2	FPGA-Based Dynamic Wavelength Interrogation System for Thousands of Identical FBG Sensors. Photonics, 2022, 9, 79.	0.9	3
3	Coherent-detection-based distributed acoustic impedance sensing enabled by a chirped fiber Bragg grating array. Photonics Research, 2022, 10, 1325.	3.4	5
4	Manifold-Based Multi-Deep Belief Network for Feature Extraction of Hyperspectral Image. Remote Sensing, 2022, 14, 1484.	1.8	14
5	Intrusion identification using GMM-HMM for perimeter monitoring based on ultra-weak FBG arrays. Optics Express, 2022, 30, 17307.	1.7	8
6	Numerical simulation of optical refractometric sensing of multiple disease markers based on lab-in-a-fiber. Optics Express, 2022, 30, 20783.	1.7	1
7	An FBG Displacement Sensor in Deformation Monitoring of Subway Floating Slab. IEEE Sensors Journal, 2021, 21, 2963-2971.	2.4	18
8	Fire Monitoring System for Hydrogen energy ship. , 2021, , .		1
9	A distributed ensemble of relevance vector machines for large-scale data sets on Spark. Soft Computing, 2021, 25, 7119-7130.	2.1	2
10	Optimization of hydrogen fuel cell model based on firefly algorithm. , 2021, , .		2
11	Sound Source Localization with Enhanced Distributed Acoustic Sensing Based on Fiber Bragg Gratings. , 2021, , .		0
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	High dynamic range distributed acoustic sensing based on dual-wavelength fiber Bragg grating pairs. Optics Letters, 2021, 46, 4402.	1.7	5
14	Design and characterization of high birefringence three suspended-cores fiber with few-mode. Optik, 2021, 244, 167473.	1.4	3
15	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
16	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
17	Accurate and Fast Wavelength Demodulation for Fbg Reflected Spectrum Using Multilayer Perceptron (Mlp) Neural Network. , 2020, , .		3
18	Surface Intrusion Recognition Method for Subway Tunnel Security System. , 2020, , .		1

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19	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
20	Applying Deep Learning to Continuous Bridge Deflection Detected by Fiber Optic Gyroscope for Damage Detection. Sensors, 2020, 20, 911.	2.1	22
21	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
22	Surface intrusion event identification for subway tunnels using ultra-weak FBG array based fiber sensing. Optics Express, 2020, 28, 6794.	1.7	31
23	Wear measurement based on the length variation of a sacrificial FBG. Optics Express, 2020, 28, 23189.	1.7	2
24	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
25	Spatial-Spectral Multiple Manifold Discriminant Analysis for Dimensionality Reduction of Hyperspectral Imagery. Remote Sensing, 2019, 11, 2414.	1.8	10
26	Fiber-Based Large Dynamic Range Vibration Sensing With Dual-Wavelength Phase Unwrapping. Journal of Lightwave Technology, 2019, 37, 6090-6096.	2.7	11
27	Research and Implementation of Super High-Speed Fiber Bragg Grating Demodulator. , 2019, , .		1
28	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
29	Thermal Error Modeling for Heavy Duty CNC Machine Tool Based on Convolution Neural Network. , 2019, , .		8
30	Parallel Computing for Quantitative Blood Flow Imaging in Photoacoustic Microscopy. Sensors, 2019, 19, 4000.	2.1	5
31	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
32	Multi-Feature Manifold Discriminant Analysis for Hyperspectral Image Classification. Remote Sensing, 2019, 11, 651.	1.8	19
33	Temperature-Insensitive Vibration Sensor With KagomÃ© Hollow-Core Fiber Based Fabryâ€™Perot Interferometer. Journal of Lightwave Technology, 2019, 37, 2261-2269.	2.7	28
34	High-Density Distributed Crack Tip Sensing System Using Dense Ultra-Short FBG Sensors. Sensors, 2019, 19, 1702.	2.1	7
35	3D-Shape Reduction System Based on Multi-Core Fiber. , 2019, , .		1
36	Demodulation Method of Identical Ultra-Weak Fiber Bragg Grating Array Based on Golay Code. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
37	High Speed Demodulation System of FBG-EFPI Hybrid Sensor Based on Fourier Domain Mode-Locked Laser. , 2019, , .		0
38	The High Spatial Resolution Demodulation Method of FBGs Based on the Section Demodulation and OTDR. , 2019, , .		0
39	Optical Fiber Extrinsic Fabry-Perot Interferometric Sensor for Large-Strain Measurement. , 2019, , .		0
40	High-Spatial Resolution Demodulation of Weak FBGs Based on Incoherent Optical Frequency Domain Reflectometry Using a Chaotic laser. , 2019, , .		0
41	Micro-Cavity Array With High Accuracy for Fully Distributed Optical Fiber Sensing. Journal of Lightwave Technology, 2019, 37, 927-932.	2.7	15
42	Cortex-wide multiparametric photoacoustic microscopy based on real-time contour scanning. Neurophotonics, 2019, 6, 1.	1.7	16
43	Noise resilient quasi-distributed sensing with an interferometric-noise-suppressing Golay coded optical source. Optics Express, 2019, 27, 25330.	1.7	7
44	Research on a high-precision calibration method for tunable lasers. Measurement Science and Technology, 2018, 29, 035201.	1.4	6
45	Distributed FBG Vibration Sensing Based on OFDR Employing a DFB-LD. , 2018, , .		1
46	The Research of Vibration Detection Using the Visual Microphone Technology. , 2018, , .		1
47	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
48	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
49	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
50	Simultaneous distributed static and dynamic sensing based on ultra-short fiber Bragg gratings. Optics Express, 2018, 26, 17437.	1.7	49
51	High-speed demodulation of weak fiber Bragg gratings based on microwave photonics and chromatic dispersion. Optics Letters, 2018, 43, 2430.	1.7	19
52	High-Speed Mach-Zehnder-OTDR Distributed Optical Fiber Vibration Sensor Using Medium-Coherence Laser. Photonic Sensors, 2018, 8, 203-212.	2.5	25
53	Large-scale multiplexing of a FBG array with randomly varied characteristic parameters for distributed sensing. Optics Letters, 2018, 43, 5259.	1.7	23
54	Implementation of hardware TCP/IP stack for DAQ systems with flexible data channel. Electronics Letters, 2017, 53, 530-532.	0.5	5

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55	Research on multi-component gas optical detection system based on conjugated interferometer. Photonic Sensors, 2017, 7, 261-269.	2.5	0
56	A High-Speed Distributed Ultra-Weak FBG Sensing System With High Resolution. IEEE Photonics Technology Letters, 2017, 29, 1249-1252.	1.3	30
57	Study and implementation of voiceprint identity authentication for Android mobile terminal. , 2017, , .		2
58	Performance Optimization Design for a High-Speed Weak FBG Interrogation System Based on DFB Laser. Sensors, 2017, 17, 1472.	2.1	12
59	Entity Hierarchy Construction for Repair Request Records. , 2016, , .		0
60	The design and implement of the cross-platform mobile automated testing framework. , 2016, , .		1
61	Optical Gas Sensor Based on Gas Conjugated Interference Light Source. IEEE Photonics Technology Letters, 2015, 27, 1550-1552.	1.3	6
62	Delay Calibration Method for Wavelength-Swept Laser-Based FBG Demodulation System. IEEE Photonics Technology Letters, 2014, 26, 2090-2092.	1.3	16
63	Research of High-Speed FBG Demodulation System for Distributed Dynamic Monitoring of Mechanical Equipment. Advances in Mechanical Engineering, 2013, 5, 107073.	0.8	9