Baoquan Jin

List of Publications by Year
in descending order

60 papers	1,021 citations
516710 16 h-index	454955 30 g-index
61 all docs	61 docs citations
61 times ranked	705 citing authors

#	Article	IF	Citations
1	Distributed Fiber-Optic Sensors for Vibration Detection. Sensors, 2016, 16, 1164.	3.8	158
2	A Comprehensive Study of Optical Fiber Acoustic Sensing. IEEE Access, 2019, 7, 85821-85837.	4.2	78
3	Recent Advances in Brillouin Optical Time Domain Reflectometry. Sensors, 2019, 19, 1862.	3.8	77
4	Real-Time Distributed Vibration Monitoring System Using Phi -OTDR. IEEE Sensors Journal, 2017, 17, 1333-1341.	4.7	67
5	Long-Range Raman Distributed Fiber Temperature Sensor With Early Warning Model for Fire Detection and Prevention. IEEE Sensors Journal, 2019, 19, 3711-3717.	4.7	52
6	Pattern Recognition Using Relevant Vector Machine in Optical Fiber Vibration Sensing System. IEEE Access, 2019, 7, 5886-5895.	4.2	48
7	Pattern Recognition for Distributed Optical Fiber Vibration Sensing: A Review. IEEE Sensors Journal, 2021, 21, 11983-11998.	4.7	48
8	Recent Progress in the Performance Enhancement of Phase-Sensitive OTDR Vibration Sensing Systems. Sensors, 2019, 19, 1709.	3.8	47
9	Partial Discharge Ultrasound Detection Using the Sagnac Interferometer System. Sensors, 2018, 18, 1425.	3.8	40
10	A Comprehensive Study of Optical Frequency Domain Reflectometry. IEEE Access, 2021, 9, 41647-41668.	4.2	40
11	Design and Implementation of an Intrinsically Safe Liquid-Level Sensor Using Coaxial Cable. Sensors, 2015, 15, 12613-12634.	3.8	28
12	Phase Demodulation Methods for Optical Fiber Vibration Sensing System: A Review. IEEE Sensors Journal, 2022, 22, 1842-1866.	4.7	23
13	Performance Improvement of Raman Distributed Temperature System by Using Noise Suppression. Photonic Sensors, 2018, 8, 103-113.	5.0	20
14	Eliminating Phase Drift for Distributed Optical Fiber Acoustic Sensing System with Empirical Mode Decomposition. Sensors, 2019, 19, 5392.	3.8	20
15	Distributed optical fiber vibration sensor using generalized cross-correlation algorithm. Measurement: Journal of the International Measurement Confederation, 2019, 144, 58-66.	5.0	17
16	Enhancing the SNR of BOTDR by Gain-Switched Modulation. IEEE Photonics Technology Letters, 2019, 31, 283-286.	2.5	17
17	An anti-noise composite optical fiber vibration sensing System. Optics and Lasers in Engineering, 2021, 139, 106483.	3.8	14
18	Research on conditional characteristics vision realâ€time detection system for conveyor belt longitudinal tear. IET Science, Measurement and Technology, 2017, 11, 955-960.	1.6	13

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19	Pulse Coding in Distributed Optical Fiber Vibration Sensor: A Review. IEEE Sensors Journal, 2021, 21, 22371-22387.	4.7	13
20	A Comprehensive Study of Energy Conservation in Electric-Hydraulic Injection-Molding Equipment. Energies, 2017, 10, 1768.	3.1	12
21	Adaptability and Anti-Noise Capacity Enhancement for Ï•-OTDR With Deep Learning. Journal of Lightwave Technology, 2020, 38, 6699-6706.	4.6	11
22	Optical Fiber Vibration Sensor Using Least Mean Square Error Algorithm. Sensors, 2020, 20, 2000.	3.8	11
23	Random coding method for SNR enhancement of BOTDR. Optics Express, 2022, 30, 11604.	3.4	11
24	Optical Fiber Vibration Sensor Using Chaotic Laser. IEEE Photonics Technology Letters, 2017, 29, 1336-1339.	2.5	10
25	Crosstalk Noise Suppressed for Multi-frequency Ï•-OTDR Using Compressed Sensing. Journal of Lightwave Technology, 2021, 39, 7343-7350.	4.6	10
26	Distributed Optical Fiber Low-Frequency Vibration Detecting Using Cross-Correlation Spectrum Analysis. Journal of Lightwave Technology, 2020, 38, 6664-6670.	4.6	9
27	Remote Simultaneous Measurement of Liquid Temperature and Refractive Index Using Fiber-Optic Spontaneous Raman Scattering. IEEE Sensors Journal, 2019, 19, 10513-10518.	4.7	8
28	Frequency drift mitigation of Î¦-OTDR using difference-fitting method. Applied Optics, 2021, 60, 459.	1.8	8
29	Multi-Parameter Collaborative Power Prediction to Improve the Efficiency of Supercapacitor-Based Regenerative Braking System. IEEE Transactions on Energy Conversion, 2021, 36, 2612-2622.	5.2	8
30	Sagnac Vibration Sensing System With Nested Pulse Method. Journal of Lightwave Technology, 2021, 39, 1550-1556.	4.6	8
31	Design and Performance Analysis of an Intrinsically Safe Ultrasonic Ranging Sensor. Sensors, 2016, 16, 867.	3.8	7
32	The Influence of Laser Linewidth on the Brillouin Shift Frequency Accuracy of BOTDR. Applied Sciences (Switzerland), 2019, 9, 58.	2.5	7
33	Interference Fading Suppression Using Active Frequency Transformation Method With Auxiliary Interferometer Feedback. Journal of Lightwave Technology, 2022, 40, 872-879.	4.6	7
34	Spatial Resolution Enhancement of OFDR Sensing System Using Phase-Domain-Interpolation Resampling Method. IEEE Sensors Journal, 2022, 22, 3202-3210.	4.7	7
35	Real-Time Phase-Sensitive OTDR Based on Data Matrix Matching Method. Sensors, 2018, 18, 1883.	3.8	6
36	Distributed acoustic sensor based on improved minimum control recursive average algorithm. Optical Fiber Technology, 2019, 50, 125-131.	2.7	6

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37	Polarization Fading Suppression for Optical Fiber Sensing: A Review. IEEE Sensors Journal, 2022, 22, 8295-8312.	4.7	5
38	Anti-disturbance proportional integral attitude control and stabilization of rolling hydraulic position system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2017, 231, 117-130.	1.0	4
39	A Logarithmic Detection Scheme in BOTDR With Low-Bandwidth Requests. IEEE Access, 2018, 6, 74828-74835.	4.2	4
40	Chaotic Correlation Optical Fiber Liquid Level Sensor. Journal of Lightwave Technology, 2019, 37, 1023-1028.	4.6	4
41	Co-Processing Parallel Computation for Distributed Optical Fiber Vibration Sensing. Applied Sciences (Switzerland), 2020, 10, 1747.	2.5	4
42	Optical fiber microphones based on twice envelope demodulation algorithm. Sensors and Actuators A: Physical, 2019, 297, 111555.	4.1	3
43	Long-Distance Detection for Periodic Vibration Signal in Î¦-OTDR System Using Global Phase Demodulation Method. IEEE Sensors Journal, 2021, 21, 26799-26804.	4.7	3
44	Detection Range Enhancement for Î¦-OTDR Using Semantic Image Segmentation. Journal of Lightwave Technology, 2022, 40, 4886-4895.	4.6	3
45	Multiresolution Phase Compensation for Phase-Sensitive OTDR. IEEE Sensors Journal, 2022, 22, 14937-14943.	4.7	3
46	Distributed fiber-optic vibration detection system. , 2016, , .		2
47	Transformerless Ultrasonic Ranging System with the Feature of Intrinsic Safety for Explosive Environment. Sensors, 2018, 18, 4397.	3.8	2
48	Coherent Optical Pulse Phase Rotation Reflectometry Insensitive to I/Q Quadrature Imbalance. IEEE Sensors Journal, 2020, 20, 1336-1342.	4.7	2
49	Multi-parameter CBM pipeline safety monitoring system based on optical fiber sensing. , 2018, , .		2
50	Fast Peak Searching Method for Brillouin Gain Spectrum Using Positive-slope Inflection Point. Journal of Lightwave Technology, 2021, , 1-1.	4.6	2
51	Polarization Fading Suppression of Î¦-OTDR withRayleigh Grayscale Pattern Aggregation Method. Applied Optics, 2021, 60, 10429-10436.	1.8	2
52	Power flow predictive model control to improve the efficiency of regenerative energy storage and utilization. Journal of Power Electronics, 2022, 22, 1758-1768.	1.5	2
53	Energy Recovery and Utilization Efficiency Improvement for Motor-Driven System Using Dynamic Energy Distribution Method. IEEE Transactions on Vehicular Technology, 2022, 71, 10327-10336.	6.3	2
54	Optical fiber vibration sensing system using delay line method. Microwave and Optical Technology Letters, 2019, 61, 853-857.	1.4	1

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55	Stability Enhancement of BOTDR Strain Sensing System by Using SOA-Based-Gain-Switched Modulation. , 2020, , .		1
56	Adaptive Pulse Period Method for Low-Frequency Vibration Sensing With Intensity-Based Phase-Sensitive OTDR Systems. IEEE Access, 2020, 8, 41838-41846.	4.2	1
57	Envelope Extraction for Vibration Locating in Coherent Φ-OTDR. Sensors, 2022, 22, 1197.	3.8	1
58	Efficiency Improvement for Regenerative Energy System Using Dynamic Efficiency-SOC-Load Model. Journal of Electrical Engineering and Technology, 2023, 18, 419-429.	2.0	1
59	Application research of distributed optical fiber sensing technology used in safety monitoring of coalbed methane pipelines. , 2016, , .		0
60	Parallel Computation Technology for Distributed Optical Fiber Sensing System. , 2019, , .		0