

Tianliang Li

List of Publications by Year in descending order

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53
papers

1,586
citations

304743

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all docs

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docs citations

54
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances and Tendencies Regarding Fiber Optic Sensors for Deformation Measurement: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 2962-2973.	4.7	20
2	A Skin-Like and Highly Stretchable Optical Fiber Sensor with the Hybrid Coding of Wavelength-Light Intensity. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	19
3	Bioinspired Stretchable Fiber-Based Sensor toward Intelligent Human-Machine Interactions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22666-22677.	8.0	22
4	Sparse Elitist Group Lasso Denoising in Frequency Domain for Bearing Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 4681-4691.	11.3	46
5	A high-temperature resistant photonic crystal fiber sensor with single-side sliding Fabry-Perot cavity for super-large strain measurement. <i>Sensors and Actuators A: Physical</i> , 2021, 318, 112492.	4.1	17
6	BP Method With Rectified Linear Unit-Based Nonlinear Decoupling for 3-Axis FBG Force Sensor. <i>IEEE Sensors Journal</i> , 2021, 21, 2972-2979.	4.7	11
7	Reaction Force Mapping by 3-Axis Tactile Sensing With Arbitrary Angles for Tissue Hard-Inclusion Localization. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 26-35.	4.2	25
8	Dynamic Piezoelectric Tactile Sensor for Tissue Hardness Measurement Using Symmetrical Flexure Hinges and Anisotropic Vibration Modes. <i>IEEE Sensors Journal</i> , 2021, 21, 17712-17722.	4.7	11
9	A temperature self-compensation submicron displacement fbg sensor with tilt parallel-suspended dual-optical fibers. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113200.	4.1	7
10	Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3236-3247.	7.9	32
11	A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 5101-5111.	7.9	40
12	Distributed Curvature Sensing and Shape Reconstruction for Soft Manipulators With Irregular Cross Sections Based on Parallel Dual-FBG Arrays. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 406-417.	5.8	26
13	Recent Advances and Tendency in Fiber Bragg Grating-Based Vibration Sensor: A Review. <i>IEEE Sensors Journal</i> , 2020, 20, 12074-12087.	4.7	97
14	Force sensing in compact concentric tube mechanism with optical fibers. , 2020, , 327-347.		0
15	Effect of Mass-Center Position of Spinal Segment on Dynamic Performances of Quadruped Bounding with a Flexible-Articulated Spine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1491.	2.5	4
16	A bioinspired analogous nerve towards artificial intelligence. <i>Nature Communications</i> , 2020, 11, 268.	12.8	80
17	FBG-based online monitoring for uncertain loading-induced deformation of heavy-duty gantry machine tool base. <i>Mechanical Systems and Signal Processing</i> , 2020, 144, 106864.	8.0	14
18	Investigation of sensitivity enhancing and temperature compensation for fiber Bragg grating (FBG)-based strain sensor. <i>Optical Fiber Technology</i> , 2019, 48, 199-206.	2.7	48

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19	Faults diagnosis of rolling bearings based on shift invariant K-singular value decomposition with sensitive atom nonlocal means enhancement. Measurement: Journal of the International Measurement Confederation, 2019, 135, 836-851.	5.0	16
20	Incipient fault detection of rolling bearing using maximum autocorrelation impulse harmonic to noise deconvolution and parameter optimized fast EEMD. ISA Transactions, 2019, 89, 256-271.	5.7	60
21	A Millinewton Resolution Fiber Bragg Grating-Based Catheter Two-Dimensional Distal Force Sensor for Cardiac Catheterization. IEEE Sensors Journal, 2018, 18, 1539-1546.	4.7	30
22	Sensitivity Enhancement of FBG-Based Strain Sensor. Sensors, 2018, 18, 1607.	3.8	66
23	A High-Sensitivity Tactile Sensor Array Based on Fiber Bragg Grating Sensing for Tissue Palpation in Minimally Invasive Surgery. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2306-2315.	5.8	73
24	Three-Dimensional Catheter Distal Force Sensing for Cardiac Ablation Based on Fiber Bragg Grating. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2316-2327.	5.8	56
25	Fiber Bragg Grating Sensing-Based Online Torque Detection on Coupled Bending and Torsional Vibration of Rotating Shaft. IEEE Sensors Journal, 2017, 17, 1999-2007.	4.7	26
26	String-type based two-dimensional fiber bragg grating vibration sensing principle and structure optimization. Sensors and Actuators A: Physical, 2017, 259, 85-95.	4.1	18
27	A Novel Fiber Bragg Grating Displacement Sensor With a Sub-Micrometer Resolution. IEEE Photonics Technology Letters, 2017, 29, 1199-1202.	2.5	44
28	An FBG-Based 2-D Vibration Sensor With Adjustable Sensitivity. IEEE Sensors Journal, 2017, 17, 4716-4724.	4.7	18
29	Paralleled Structure-Based String-Type Fiber Bragg Grating Acceleration Sensor. IEEE Sensors Journal, 2017, 17, 1325-1332.	4.7	17
30	A High-Sensitivity Fiber Bragg Grating Displacement Sensor Based on Transverse Property of a Tensioned Optical Fiber Configuration and Its Dynamic Performance Improvement. IEEE Sensors Journal, 2017, 17, 5840-5848.	4.7	36
31	A hybrid FBG displacement and force sensor with a suspended and bent optical fiber configuration. Sensors and Actuators A: Physical, 2017, 268, 117-125.	4.1	24
32	Shape Sensing Techniques for Continuum Robots in Minimally Invasive Surgery: A Survey. IEEE Transactions on Biomedical Engineering, 2017, 64, 1665-1678.	4.2	262
33	A Diaphragm-type Highly Sensitive Fiber Bragg Grating Force Transducer with Temperature Compensation. IEEE Sensors Journal, 2017, , 1-1.	4.7	7
34	Diaphragm Based Fiber Bragg Grating Acceleration Sensor with Temperature Compensation. Sensors, 2017, 17, 218.	3.8	61
35	Incipient Fault Feature Extraction of Rolling Bearings Using Autocorrelation Function Impulse Harmonic to Noise Ratio Index Based SVD and Teager Energy Operator. Applied Sciences (Switzerland), 2017, 7, 1117.	2.5	21
36	A Fiber Bragg Grating Sensing-Based Micro-Vibration Sensor and Its Application. Sensors, 2016, 16, 547.	3.8	19

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37	A diaphragm type fiber Bragg grating vibration sensor based on transverse property of optical fiber with temperature compensation. IEEE Sensors Journal, 2016, , 1-1.	4.7	37
38	Application of Embedded Fiber Bragg Grating (FBG) Sensors in Monitoring Health to 3D Printing Structures. IEEE Sensors Journal, 2016, 16, 6604-6610.	4.7	47
39	A temperature-independent force transducer using one optical fiber with multiple Bragg gratings. IEICE Electronics Express, 2016, 13, 20160198-20160198.	0.8	5
40	A non-contact FBG vibration sensor with double differential temperature compensation. Optical Review, 2016, 23, 26-32.	2.0	22
41	Fault Diagnosis for Supporting Rollers of the Rotary Kiln Using the Dynamic Model and Empirical Mode Decomposition. Mechanika, 2016, 22, .	0.5	1
42	Research on pasted FBG-based accelerometer's sensitization process method and its characteristics. IEICE Electronics Express, 2015, 12, 20150583-20150583.	0.8	4
43	Pasted type distributed two-dimensional fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2015, 86, 075009.	1.3	15
44	Turbine rotor dynamic balance vibration measurement based on the non-contact optical fiber grating sensing. IEICE Electronics Express, 2015, 12, 20150380-20150380.	0.8	3
45	A Fiber Bragg Grating Sensing Based Triaxial Vibration Sensor. Sensors, 2015, 15, 24214-24229.	3.8	23
46	Non-contact FBG sensing based steam turbine rotor dynamic balance vibration detection system. Proceedings of SPIE, 2015, , .	0.8	0
47	Distributed deformation measurement of large space deployable mechanism based on FBG sensors. Proceedings of SPIE, 2015, , .	0.8	0
48	Study on the non-contact FBG vibration sensor and its application. Photonic Sensors, 2015, 5, 128-136.	5.0	23
49	Design of a WSN System for Condition Monitoring of the Mechanical Equipment with Energy Harvesting. International Journal of Online and Biomedical Engineering, 2015, 11, 43.	1.4	6
50	Study on non-contact Fiber Bragg grating vibration sensor. , 2014, , .		1
51	A non-contact fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2014, 85, 015002.	1.3	26
52	Design of EBS performance test system based on LabVIEW. , 2013, , .		0
53	Research on stress measurement in butt-welding of aluminium alloy plates based on fiber Bragg grating sensors. , 2013, , .		0