

Tianliang Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5900193/publications.pdf>

Version: 2024-02-01

53
papers

1,586
citations

304743

22
h-index

302126

39
g-index

54
all docs

54
docs citations

54
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Sensing Techniques for Continuum Robots in Minimally Invasive Surgery: A Survey. IEEE Transactions on Biomedical Engineering, 2017, 64, 1665-1678.	4.2	262
2	Recent Advances and Tendency in Fiber Bragg Grating-Based Vibration Sensor: A Review. IEEE Sensors Journal, 2020, 20, 12074-12087.	4.7	97
3	A bioinspired analogous nerve towards artificial intelligence. Nature Communications, 2020, 11, 268.	12.8	80
4	A High-Sensitivity Tactile Sensor Array Based on Fiber Bragg Grating Sensing for Tissue Palpaton in Minimally Invasive Surgery. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2306-2315.	5.8	73
5	Sensitivity Enhancement of FBG-Based Strain Sensor. Sensors, 2018, 18, 1607.	3.8	66
6	Diaphragm Based Fiber Bragg Grating Acceleration Sensor with Temperature Compensation. Sensors, 2017, 17, 218.	3.8	61
7	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
8	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
9	Investigation of sensitivity enhancing and temperature compensation for fiber Bragg grating (FBG)-based strain sensor. Optical Fiber Technology, 2019, 48, 199-206.	2.7	48
10	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
11	Sparse Elitist Group Lasso Denoising in Frequency Domain for Bearing Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2021, 17, 4681-4691.	11.3	46
12	A Novel Fiber Bragg Grating Displacement Sensor With a Sub-Micrometer Resolution. IEEE Photonics Technology Letters, 2017, 29, 1199-1202.	2.5	44
13	A High-Resolution Triaxial Catheter Tip Force Sensor With Miniature Flexure and Suspended Optical Fibers. IEEE Transactions on Industrial Electronics, 2020, 67, 5101-5111.	7.9	40
14	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
15	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
16	Disposable FBG-Based Tridirectional Force/Torque Sensor for Aspiration Instruments in Neurosurgery. IEEE Transactions on Industrial Electronics, 2020, 67, 3236-3247.	7.9	32
17	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
18	A non-contact fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2014, 85, 015002.	1.3	26

#	ARTICLE	IF	CITATIONS
19	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
20	Distributed Curvature Sensing and Shape Reconstruction for Soft Manipulators With Irregular Cross Sections Based on Parallel Dual-FBG Arrays. IEEE/ASME Transactions on Mechatronics, 2020, 25, 406-417.	5.8	26
21	Reaction Force Mapping by 3-Axis Tactile Sensing With Arbitrary Angles for Tissue Hard-Inclusion Localization. IEEE Transactions on Biomedical Engineering, 2021, 68, 26-35.	4.2	25
22	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
23	A Fiber Bragg Grating Sensing Based Triaxial Vibration Sensor. Sensors, 2015, 15, 24214-24229.	3.8	23
24	Study on the non-contact FBG vibration sensor and its application. Photonic Sensors, 2015, 5, 128-136.	5.0	23
25	A non-contact FBG vibration sensor with double differential temperature compensation. Optical Review, 2016, 23, 26-32.	2.0	22
26	Bioinspired Stretchable Fiber-Based Sensor toward Intelligent Human-Machine Interactions. ACS Applied Materials & Interfaces, 2022, 14, 22666-22677.	8.0	22
27	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
28	Recent Advances and Tendencies Regarding Fiber Optic Sensors for Deformation Measurement: A Review. IEEE Sensors Journal, 2022, 22, 2962-2973.	4.7	20
29	A Fiber Bragg Grating Sensing-Based Micro-Vibration Sensor and Its Application. Sensors, 2016, 16, 547.	3.8	19
30	A Skin-Like and Highly Stretchable Optical Fiber Sensor with the Hybrid Coding of Wavelength-Light Intensity. Advanced Intelligent Systems, 2022, 4, .	6.1	19
31	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
32	An FBG-Based 2-D Vibration Sensor With Adjustable Sensitivity. IEEE Sensors Journal, 2017, 17, 4716-4724.	4.7	18
33	Paralleled Structure-Based String-Type Fiber Bragg Grating Acceleration Sensor. IEEE Sensors Journal, 2017, 17, 1325-1332.	4.7	17
34	A high-temperature resistant photonic crystal fiber sensor with single-side sliding Fabry-Perot cavity for super-large strain measurement. Sensors and Actuators A: Physical, 2021, 318, 112492.	4.1	17
35	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
36	Pasted type distributed two-dimensional fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2015, 86, 075009.	1.3	15

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	A Diaphragm-type Highly Sensitive Fiber Bragg Grating Force Transducer with Temperature Compensation. <i>IEEE Sensors Journal</i> , 2017, , 1-1.	4.7	7
41	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
42	Design of a WSN System for Condition Monitoring of the Mechanical Equipment with Energy Harvesting. <i>International Journal of Online and Biomedical Engineering</i> , 2015, 11, 43.	1.4	6
43	A temperature-independent force transducer using one optical fiber with multiple Bragg gratings. <i>IEICE Electronics Express</i> , 2016, 13, 20160198-20160198.	0.8	5
44	Research on pasted FBG-based accelerometer's sensitization process method and its characteristics. <i>IEICE Electronics Express</i> , 2015, 12, 20150583-20150583.	0.8	4
45	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
46	Turbine rotor dynamic balance vibration measurement based on the non-contact optical fiber grating sensing. <i>IEICE Electronics Express</i> , 2015, 12, 20150380-20150380.	0.8	3
47	Study on non-contact Fiber Bragg grating vibration sensor. , 2014, , .		1
48	Fault Diagnosis for Supporting Rollers of the Rotary Kiln Using the Dynamic Model and Empirical Mode Decomposition. <i>Mechanika</i> , 2016, 22, .	0.5	1
49	Design of EBS performance test system based on LabVIEW. , 2013, , .		0
50	Research on stress measurement in butt-welding of aluminium alloy plates based on fiber Bragg grating sensors. , 2013, , .		0
51	Non-contact FBG sensing based steam turbine rotor dynamic balance vibration detection system. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
52	Distributed deformation measurement of large space deployable mechanism based on FBG sensors. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
53	Force sensing in compact concentric tube mechanism with optical fibers. , 2020, , 327-347.		0