Yuegang Tan

List of Publications by Year
in descending order

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58	884	430874	526287
papers	citations	18	27
		h-index	g-index

58	58	58	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Advances and Tendency in Fiber Bragg Grating-Based Vibration Sensor: A Review. IEEE Sensors Journal, 2020, 20, 12074-12087.	4.7	97
2	Sensitivity Enhancement of FBG-Based Strain Sensor. Sensors, 2018, 18, 1607.	3.8	66
3	Diaphragm Based Fiber Bragg Grating Acceleration Sensor with Temperature Compensation. Sensors, 2017, 17, 218.	3.8	61
4	Design of steering mechanism and control of nonholonomic trailer systems. IEEE Transactions on Automation Science and Engineering, 2001, 17, 367-374.	2.3	46
5	Performance of 3D-Printed Continuous-Carbon-Fiber-Reinforced Plastics with Pressure. Materials, 2020, 13, 471.	2.9	43
6	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
7	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
8	Design of steering mechanism and control of nonholonomic trailer systems. , 0, , .		26
9	A non-contact fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2014, 85, 015002.	1.3	26
10	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
11	Unfastening of Hexagonal Headed Screws by a Collaborative Robot. IEEE Transactions on Automation Science and Engineering, 2020, , 1-14.	5.2	25
12	A Fiber Bragg Grating Sensing Based Triaxial Vibration Sensor. Sensors, 2015, 15, 24214-24229.	3.8	23
13	Study on the non-contact FBG vibration sensor and its application. Photonic Sensors, 2015, 5, 128-136.	5.0	23
14	Bioinspired Stretchable Fiber-Based Sensor toward Intelligent Humanâ€“Machine Interactions. ACS Applied Materials & Interfaces, 2022, 14, 22666-22677.	8.0	22
15	High Sensitivity Fiber Bragg Grating Acceleration Sensor Based on Rigid Hinge. IEEE Sensors Journal, 2020, 20, 8223-8231.	4.7	21
16	Recent Advances and Tendencies Regarding Fiber Optic Sensors for Deformation Measurement: A Review. IEEE Sensors Journal, 2022, 22, 2962-2973.	4.7	20
17	A Fiber Bragg Grating Sensing-Based Micro-Vibration Sensor and Its Application. Sensors, 2016, 16, 547.	3.8	19
18	A Skinâ€Like and Highly Stretchable Optical Fiber Sensor with the Hybrid Coding of Wavelengthâ€“Light Intensity. Advanced Intelligent Systems, 2022, 4, .	6.1	19

#	Article	IF	Citations
19	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
20	An FBG-Based 2-D Vibration Sensor With Adjustable Sensitivity. IEEE Sensors Journal, 2017, 17, 4716-4724.	4.7	18
21	Paralleled Structure-Based String-Type Fiber Bragg Grating Acceleration Sensor. IEEE Sensors Journal, 2017, 17, 1325-1332.	4.7	17
22	The Detection of the Pipe Crack Utilizing the Operational Modal Strain Identified from Fiber Bragg Grating. Sensors, 2019, 19, 2556.	3.8	17
23	Pasted type distributed two-dimensional fiber Bragg grating vibration sensor. Review of Scientific Instruments, 2015, 86, 075009.	1.3	15
24	Measurement of Temperature Field for the Spindle of Machine Tool Based on Optical Fiber Bragg Grating Sensors. Advances in Mechanical Engineering, 2013, 5, 940626.	1.6	14
25	Study on strain transfer of embedded fiber Bragg grating sensors. Optical Engineering, 2014, 53, 085105.	1.0	13
26	Experimental study of dynamic strain for gear tooth using fiber Bragg gratings and piezoelectric strain sensors. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3992-4003.	2.1	13
27	BP Method With Rectified Linear Unit-Based Nonlinear Decoupling for 3-Axis FBG Force Sensor. IEEE Sensors Journal, 2021, 21, 2972-2979.	4.7	11
28	Enhancement in Quality Estimation of Resistance Spot Welding Using Vision System and Fuzzy Support Vector Machine. Symmetry, 2020, 12, 1380.	2.2	10
29	Shearing algorithm and device for the continuous carbon fiber 3D printing. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2019, 13, JAMDSM0016-JAMDSM0016.	0.7	9
30	A Composite Fabry-Perot Interferometric Sensor with the Dual-Cavity Structure for Simultaneous Measurement of High Temperature and Strain. Sensors, 2021, 21, 4989.	3.8	9
31	A Diaphragm-type Highly Sensitive Fiber Bragg Grating Force Transducer with Temperature Compensation. IEEE Sensors Journal, 2017, , 1-1.	4.7	7
32	A temperature-insensitive FBG displacement sensor with a 10-nanometer-grade resolution. IEICE Electronics Express, 2018, 15, 20180694-20180694.	0.8	7
33	A temperature self-compensation submicron displacement fbg sensor with tilt parallel-suspended dual-optical fibers. Sensors and Actuators A: Physical, 2021, 332, 113200.	4.1	7
34	A Nonholonomic Motion Planning and Control Based on Chained Form Transformation. , 2006, , .		6
35	Integration of DE Algorithm with PDC-APF for Enhancement of Contour Path Planning of a Universal Robot. Applied Sciences (Switzerland), 2021, 11, 6532.	2.5	6
36	Modeling and Optimization of Laser Cladding Fixation Process for Optical Fiber Sensors in Harsh Environments. Sensors, 2022, 22, 2569.	3.8	6

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37	A temperature-independent force transducer using one optical fiber with multiple Bragg gratings. IEICE Electronics Express, 2016, 13, 20160198-20160198.	0.8	5
38	Trotting Motion of the Quadruped Model with Two Spinal Joints and Its Dynamics Features. Journal of Robotics, 2020, 2020, 1-14.	0.9	5
39	Design and experimental study of a Fiber Bragg grating pressure sensor. , 2014, , .		4
40	Research on pasted FBG-based accelerometerâ€™s sensitization process method and its characteristics. IEICE Electronics Express, 2015, 12, 20150583-20150583.	0.8	4
41	Theoretical and Experimental Investigation of Ultrasonic Transducers With Dual Oppositely Polarized PMN-PT Layers in Wide Frequency Range. IEEE Transactions on Industrial Electronics, 2016, 63, 2313-2319.	7.9	4
42	The compliant effect of controlled spine on interaction with the ground in quadruped trotting. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2020, 234, 27-45.	1.0	4
43	Effect of Mass-Center Position of Spinal Segment on Dynamic Performances of Quadruped Bounding with a Flexible-Articulated Spine. Applied Sciences (Switzerland), 2020, 10, 1491.	2.5	4
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 novel fault diagnostic technique for gearboxes under speed fluctuations without angular speed measurement. , 2016, , .		2
46	Influence of the incident angle of strain wave on the sensing sensitivity of fiber Bragg grating. IEICE Electronics Express, 2018, 15, 20171255-20171255.	0.8	2
47	Comparison Study of the PSO and SBPSO on Universal Robot Trajectory Planning. Applied Sciences (Switzerland), 2022, 12, 1518.	2.5	2
48	Analysis of fiber Bragg gratings reflective spectrum under ultrasonic excitation. , 2011, , .		1
49	On research of incipient gear pitting fault detection using optic fiber sensors. , 2018, , .		1
50	Feasibility Study on Temperature Distribution Measurement Method of Thrust Sliding Bearing Bush Based on FBG Quasi-Distributed Sensing. Sensors, 2019, 19, 3245.	3.8	1
51	An FBG based smart clamp fabricated by 3D printing technology and its application to incipient clamp looseness detection. , 2019, , .		1
52	A Virtual Model To Predict The Influence Of Indexing Errors On The Transmission Error Of Spur Gears. , 2019, , .		1
53	Spline Interpolation Method Based on Arc Length Parameterization and its Application in Stress Field Interpolation for Flexible Plates. IEEE Access, 2021, 9, 35879-35887.	4.2	1
54	A novel synergistic diagnostic scheme for planetary gearboxes based on an analytical vibration model of planetary gear-sets. , 2016, , .		0

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55	Application of fiber Bragg grating in the welding process monitoring of 2A14 flange plate. , 2017, , .		0
56	Dynamic Modeling and Fault Feature Analysis of Pitted Gear System. , 2018, , .		0
57	Design of an optimal observer for making liquid level control loop robust to variations in transmission parameters. Cogent Engineering, 2020, 7, 1840688.	2.2	0
58	Bending Deflection Estimation of the Beam-like Structure Based on Strain Measurements From a Fiber Bragg Grating Sensing Network. , 2020, , .		0