

Yuegang Tan

List of Publications by Year in descending order

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papers

884
citations

430754

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all docs

58
docs citations

58
times ranked

671
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.	2.4	97
2	Sensitivity Enhancement of FBG-Based Strain Sensor. Sensors, 2018, 18, 1607.	2.1	66
3	Diaphragm Based Fiber Bragg Grating Acceleration Sensor with Temperature Compensation. Sensors, 2017, 17, 218.	2.1	61
4	Design of steering mechanism and control of nonholonomic trailer systems. IEEE Transactions on Automation Science and Engineering, 2001, 17, 367-374.	2.4	46
5	Performance of 3D-Printed Continuous-Carbon-Fiber-Reinforced Plastics with Pressure. Materials, 2020, 13, 471.	1.3	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.	2.4	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.	2.4	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.	0.6	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.	2.4	26
11	Unfastening of Hexagonal Headed Screws by a Collaborative Robot. IEEE Transactions on Automation Science and Engineering, 2020, , 1-14.	3.4	25
12	A Fiber Bragg Grating Sensing Based Triaxial Vibration Sensor. Sensors, 2015, 15, 24214-24229.	2.1	23
13	Study on the non-contact FBG vibration sensor and its application. Photonic Sensors, 2015, 5, 128-136.	2.5	23
14	Bioinspired Stretchable Fiber-Based Sensor toward Intelligent Human-Machine Interactions. ACS Applied Materials & Interfaces, 2022, 14, 22666-22677.	4.0	22
15	High Sensitivity Fiber Bragg Grating Acceleration Sensor Based on Rigid Hinge. IEEE Sensors Journal, 2020, 20, 8223-8231.	2.4	21
16	Recent Advances and Tendencies Regarding Fiber Optic Sensors for Deformation Measurement: A Review. IEEE Sensors Journal, 2022, 22, 2962-2973.	2.4	20
17	A Fiber Bragg Grating Sensing-Based Micro-Vibration Sensor and Its Application. Sensors, 2016, 16, 547.	2.1	19
18	A Skin-Like and Highly Stretchable Optical Fiber Sensor with the Hybrid Coding of Wavelength-Light Intensity. Advanced Intelligent Systems, 2022, 4, .	3.3	19

#	ARTICLE	IF	CITATIONS
19	String-type based two-dimensional fiber bragg grating vibration sensing principle and structure optimization. <i>Sensors and Actuators A: Physical</i> , 2017, 259, 85-95.	2.0	18
20	An FBG-Based 2-D Vibration Sensor With Adjustable Sensitivity. <i>IEEE Sensors Journal</i> , 2017, 17, 4716-4724.	2.4	18
21	Paralleled Structure-Based String-Type Fiber Bragg Grating Acceleration Sensor. <i>IEEE Sensors Journal</i> , 2017, 17, 1325-1332.	2.4	17
22	The Detection of the Pipe Crack Utilizing the Operational Modal Strain Identified from Fiber Bragg Grating. <i>Sensors</i> , 2019, 19, 2556.	2.1	17
23	Pasted type distributed two-dimensional fiber Bragg grating vibration sensor. <i>Review of Scientific Instruments</i> , 2015, 86, 075009.	0.6	15
24	Measurement of Temperature Field for the Spindle of Machine Tool Based on Optical Fiber Bragg Grating Sensors. <i>Advances in Mechanical Engineering</i> , 2013, 5, 940626.	0.8	14
25	Study on strain transfer of embedded fiber Bragg grating sensors. <i>Optical Engineering</i> , 2014, 53, 085105.	0.5	13
26	Experimental study of dynamic strain for gear tooth using fiber Bragg gratings and piezoelectric strain sensors. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 3992-4003.	1.1	13
27	BP Method With Rectified Linear Unit-Based Nonlinear Decoupling for 3-Axis FBG Force Sensor. <i>IEEE Sensors Journal</i> , 2021, 21, 2972-2979.	2.4	11
28	Enhancement in Quality Estimation of Resistance Spot Welding Using Vision System and Fuzzy Support Vector Machine. <i>Symmetry</i> , 2020, 12, 1380.	1.1	10
29	Shearing algorithm and device for the continuous carbon fiber 3D printing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2019, 13, JAMDSM0016-JAMDSM0016.	0.3	9
30	A Composite Fabry-Perot Interferometric Sensor with the Dual-Cavity Structure for Simultaneous Measurement of High Temperature and Strain. <i>Sensors</i> , 2021, 21, 4989.	2.1	9
31	A Diaphragm-type Highly Sensitive Fiber Bragg Grating Force Transducer with Temperature Compensation. <i>IEEE Sensors Journal</i> , 2017, , 1-1.	2.4	7
32	A temperature-insensitive FBG displacement sensor with a 10-nanometer-grade resolution. <i>IEICE Electronics Express</i> , 2018, 15, 20180694-20180694.	0.3	7
33	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.	2.0	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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6532.	1.3	6
36	Modeling and Optimization of Laser Cladding Fixation Process for Optical Fiber Sensors in Harsh Environments. <i>Sensors</i> , 2022, 22, 2569.	2.1	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.	0.3	5
38	Trotting Motion of the Quadruped Model with Two Spinal Joints and Its Dynamics Features. Journal of Robotics, 2020, 2020, 1-14.	0.6	5
39	Design and experimental study of a Fiber Bragg grating pressure sensor. , 2014, , .		4
40	Research on pasted FBG-based accelerometer's sensitization process method and its characteristics. IEICE Electronics Express, 2015, 12, 20150583-20150583.	0.3	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.	5.2	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.	0.7	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.	1.3	4
44	Turbine rotor dynamic balance vibration measurement based on the non-contact optical fiber grating sensing. IEICE Electronics Express, 2015, 12, 20150380-20150380.	0.3	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.	0.3	2
47	Comparison Study of the PSO and SBPSO on Universal Robot Trajectory Planning. Applied Sciences (Switzerland), 2022, 12, 1518.	1.3	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.	2.1	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.	2.6	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.	1.1	0
58	Bending Deflection Estimation of the Beam-like Structure Based on Strain Measurements From a Fiber Bragg Grating Sensing Network. , 2020, , .		0