

# Yuegang Tan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47  
papers

487  
citations

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h-index

20  
g-index

58  
ext. papers

642  
ext. citations

3  
avg, IF

4  
L-index

#	Paper	IF	Citations
47	Design of steering mechanism and control of nonholonomic trailer systems. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2001</b> , 17, 367-374		38
46	Diaphragm Based Fiber Bragg Grating Acceleration Sensor with Temperature Compensation. <i>Sensors</i> , <b>2017</b> , 17,	3.8	37
45	Sensitivity Enhancement of FBG-Based Strain Sensor. <i>Sensors</i> , <b>2018</b> , 18,	3.8	35
44	Recent Advances and Tendency in Fiber Bragg Grating-Based Vibration Sensor: A Review. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 12074-12087	4	34
43	Performance of 3D-Printed Continuous-Carbon-Fiber-Reinforced Plastics with Pressure. <i>Materials</i> , <b>2020</b> , 13,	3.5	29
42	A Diaphragm Type Fiber Bragg Grating Vibration Sensor Based on Transverse Property of Optical Fiber With Temperature Compensation. <i>IEEE Sensors Journal</i> , <b>2016</b> , 1-1	4	28
41	A High-Sensitivity Fiber Bragg Grating Displacement Sensor Based on Transverse Property of a Tensioned Optical Fiber Configuration and Its Dynamic Performance Improvement. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5840-5848	4	27
40	A non-contact fiber Bragg grating vibration sensor. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 015002	1.7	23
39	Fiber Bragg Grating Sensing-Based Online Torque Detection on Coupled Bending and Torsional Vibration of Rotating Shaft. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 1999-2007	4	21
38	Study on the non-contact FBG vibration sensor and its application. <i>Photonic Sensors</i> , <b>2015</b> , 5, 128-136	2.3	16
37	A Fiber Bragg Grating Sensing Based Triaxial Vibration Sensor. <i>Sensors</i> , <b>2015</b> , 15, 24214-29	3.8	14
36	Paralleled Structure-Based String-Type Fiber Bragg Grating Acceleration Sensor. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 1325-1332	4	13
35	Pasted type distributed two-dimensional fiber Bragg grating vibration sensor. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 075009	1.7	13
34	An FBG-Based 2-D Vibration Sensor With Adjustable Sensitivity. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 4716-4724		12
33	Study on strain transfer of embedded fiber Bragg grating sensors. <i>Optical Engineering</i> , <b>2014</b> , 53, 085105	1.1	12
32	A Fiber Bragg Grating Sensing-Based Micro-Vibration Sensor and Its Application. <i>Sensors</i> , <b>2016</b> , 16,	3.8	12
31	High Sensitivity Fiber Bragg Grating Acceleration Sensor Based on Rigid Hinge. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 8223-8231	4	11

30	The Detection of the Pipe Crack Utilizing the Operational Modal Strain Identified from Fiber Bragg Grating. <i>Sensors</i> , <b>2019</b> , 19,	3.8	10
29	Design of steering mechanism and control of nonholonomic trailer systems		10
28	String-type based two-dimensional fiber bragg grating vibration sensing principle and structure optimization. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 259, 85-95	3.9	9
27	Measurement of Temperature Field for the Spindle of Machine Tool Based on Optical Fiber Bragg Grating Sensors. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 940626	1.2	9
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> , <b>2018</b> , 232, 3992-4003	1.3	8
25	Unfastening of Hexagonal Headed Screws by a Collaborative Robot. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 1-14	4.9	7
24	A temperature-insensitive FBG displacement sensor with a 10-nanometer-grade resolution. <i>IEICE Electronics Express</i> , <b>2018</b> , 15, 20180694-20180694	0.5	6
23	A temperature-independent force transducer using one optical fiber with multiple Bragg gratings. <i>IEICE Electronics Express</i> , <b>2016</b> , 13, 20160198-20160198	0.5	5
22	A Nonholonomic Motion Planning and Control Based on Chained Form Transformation <b>2006</b> ,		5
21	A Diaphragm-Type Highly Sensitive Fiber Bragg Grating Force Transducer With Temperature Compensation. <i>IEEE Sensors Journal</i> , <b>2017</b> , 1-1	4	4
20	A Skin-Like and Highly Stretchable Optical Fiber Sensor with the Hybrid Coding of Wavelength Light Intensity. <i>Advanced Intelligent Systems</i> , 2100193	6	4
19	BP Method With Rectified Linear Unit-Based Nonlinear Decoupling for 3-Axis FBG Force Sensor. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 2972-2979	4	4
18	Shearing algorithm and device for the continuous carbon fiber 3D printing. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , <b>2019</b> , 13, JAMDSM0016-JAMDSM0016	0.6	3
17	Theoretical and Experimental Investigation of Ultrasonic Transducers With Dual Oppositely Polarized PMN-PT Layers in Wide Frequency Range. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 2313-2319	8.9	3
16	A temperature self-compensation submicron displacement fbg sensor with tilt parallel-suspended dual-optical fibers. <i>Sensors and Actuators A: Physical</i> , <b>2021</b> , 332, 113200	3.9	3
15	Integration of DE Algorithm with PDC-APF for Enhancement of Contour Path Planning of a Universal Robot. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6532	2.6	3
14	Modeling and Optimization of Laser Cladding Fixation Process for Optical Fiber Sensors in Harsh Environments.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	3
13	Research on pasted FBG-based accelerometer sensitization process method and its characteristics. <i>IEICE Electronics Express</i> , <b>2015</b> , 12, 20150583-20150583	0.5	2

12	Turbine rotor dynamic balance vibration measurement based on the non-contact optical fiber grating sensing. <i>IEICE Electronics Express</i> , <b>2015</b> , 12, 20150380-20150380	0.5	2
11	Recent Advances and Tendencies regarding Fiber Optic Sensors for Deformation Measurement: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	2
10	Effect of Mass-Center Position of Spinal Segment on Dynamic Performances of Quadruped Bounding with a Flexible-Articulated Spine. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1491	2.6	1
9	On research of incipient gear pitting fault detection using optic fiber sensors <b>2018</b> ,		1
8	Trotting Motion of the Quadruped Model with Two Spinal Joints and Its Dynamics Features. <i>Journal of Robotics</i> , <b>2020</b> , 2020, 1-14	1.5	1
7	Enhancement in Quality Estimation of Resistance Spot Welding Using Vision System and Fuzzy Support Vector Machine. <i>Symmetry</i> , <b>2020</b> , 12, 1380	2.7	1
6	A novel fault diagnostic technique for gearboxes under speed fluctuations without angular speed measurement <b>2016</b> ,		1
5	The compliant effect of controlled spine on interaction with the ground in quadruped trotting. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2020</b> , 234, 27-45	1	1
4	Influence of the incident angle of strain wave on the sensing sensitivity of fiber Bragg grating. <i>IEICE Electronics Express</i> , <b>2018</b> , 15, 20171255-20171255	0.5	1
3	Comparison Study of the PSO and SBPSO on Universal Robot Trajectory Planning. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1518	2.6	0
2	Design of an optimal observer for making liquid level control loop robust to variations in transmission parameters. <i>Cogent Engineering</i> , <b>2020</b> , 7, 1840688	1.5	
1	Spline Interpolation Method Based on Arc Length Parameterization and its Application in Stress Field Interpolation for Flexible Plates. <i>IEEE Access</i> , <b>2021</b> , 9, 35879-35887	3.5	