Yiyang Zhuang

List of Publications by Year
in descending order

26 papers	571 citations	516710 16 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	420 citing authors

#	Article	IF	Citations
1	A Miniaturized Optical Fiber Tip High-Temperature Sensor Based on Concave-Shaped Fabryâ€“Perot Cavity. IEEE Photonics Technology Letters, 2019, 31, 35-38.	2.5	54
2	Rayleigh backscattering based macrobending single mode fiber for distributed refractive index sensing. Sensors and Actuators B: Chemical, 2017, 248, 346-350.	7.8	53
3	Probing Nanostrain via a Mechanically Designed Optical Fiber Interferometer. IEEE Photonics Technology Letters, 2017, 29, 1348-1351.	2.5	45
4	Probing changes in tilt angle with 20 nanoradian resolution using an extrinsic Fabry-Perot interferometer-based optical fiber inclinometer. Optics Express, 2018, 26, 2546.	3.4	42
5	Optical Interferometric Pressure Sensor Based on a Buckled Beam With Low-Temperature Cross-Sensitivity. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 950-955.	4.7	34
6	A Displacement Sensor with Centimeter Dynamic Range and Submicrometer Resolution Based on an Optical Interferometer.. IEEE Sensors Journal, 2017, , 1-1.	4.7	30
7	Unclonable Optical Fiber Identification Based on Rayleigh Backscattering Signatures. Journal of Lightwave Technology, 2017, 35, 4634-4640.	4.6	24
8	An Optical Interferometric Triaxial Displacement Sensor for Structural Health Monitoring: Characterization of Sliding and Debonding for a Delamination Process. Sensors, 2017, 17, 2696.	3.8	24
9	A Liquid-Level Sensor Based on a Hollow Coaxial Cable Fabryâ€“Perot Resonator With Micrometer Resolution. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2892-2897.	4.7	24
10	A Spatially Distributed Fiber-Optic Temperature Sensor for Applications in the Steel Industry. Sensors, 2020, 20, 3900.	3.8	24
11	A High-Resolution 2-D Fiber Optic Inclinometer for Structural Health Monitoring Applications. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 6544-6555.	4.7	23
12	Fiber optic sensors enabled monitoring of thermal curling of concrete pavement slab: Temperature, strain and inclination. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108203.	5.0	22
13	A Centimeter-Range Displacement Sensor Based on a Hollow Coaxial Cable Fabryâ€“Perot Resonator. IEEE Sensors Journal, 2018, 18, 4436-4442.	4.7	21
14	A hollow coaxial cable Fabryâ€“PÃ©rot resonator for liquid dielectric constant measurement. Review of Scientific Instruments, 2018, 89, 045003.	1.3	19
15	Displacement and Strain Measurement up to 1000 Â°C Using a Hollow Coaxial Cable Fabry-Perot Resonator. Sensors, 2018, 18, 1304.	3.8	18
16	Fiber optic sensor embedded smart helmet for real-time impact sensing and analysis through machine learning. Journal of Neuroscience Methods, 2021, 351, 109073.	2.5	18
17	An embeddable optical strain gauge based on a buckled beam. Review of Scientific Instruments, 2017, 88, 115002.	1.3	15
18	Contactless liquid interface measurement based on a hollow coaxial cable resonator. Sensors and Actuators A: Physical, 2019, 285, 623-627.	4.1	15

#	Article	IF	Citations
19	Distributed fiber optic sensing with enhanced sensitivity based on microwave-photonic Vernier effect. Optics Letters, 2022, 47, 2810.	3.3	13
20	Distributed fiber-optic pressure sensor based on Bourdon tubes metered by optical frequency-domain reflectometry. Optical Engineering, 2019, 58, 1.	1.0	11
21	2-D Tilt Sensor Based on Coaxial Cable Fabryâ€“Perot Resonators With Submicroradian Resolution. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2398-2406.	4.6	10
22	Truly Distributed Coaxial Cable Sensing Based on Random Inhomogeneities. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4600-4607.	4.7	8
23	Mitigation of thermal curling of concrete slab using phase change material: A feasibility study. Cement and Concrete Composites, 2021, 120, 104021.	10.7	7
24	A Microwave Photonics Fiber Loop Ring-Down System. IEEE Sensors Journal, 2017, 17, 6565-6570.	4.7	6
25	A Uniform Strain Transfer Scheme for Accurate Distributed Optical Fiber Strain Measurements in Civil Structures. Inventions, 2018, 3, 30.	2.5	6
26	An Embeddable Strain Sensor with 30 Nano-Strain Resolution Based on Optical Interferometry. Inventions, 2018, 3, 20.	2.5	5