

# Jie Huang

## 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.

99  
papers

1,366  
citations

20  
h-index

31  
g-index

113  
ext. papers

1,876  
ext. citations

4.2  
avg, IF

5.18  
L-index

#	Paper	IF	Citations
99	High-temperature fiber-optic Fabry-Perot interferometric pressure sensor fabricated by femtosecond laser. <i>Optics Letters</i> , <b>2013</b> , 38, 4609-12	3	113
98	Spatially continuous distributed fiber optic sensing using optical carrier based microwave interferometry. <i>Optics Express</i> , <b>2014</b> , 22, 18757-69	3.3	63
97	Polymer optical fiber for large strain measurement based on multimode interference. <i>Optics Letters</i> , <b>2012</b> , 37, 4308-10	3	61
96	All-in-fiber optofluidic sensor fabricated by femtosecond laser assisted chemical etching. <i>Optics Letters</i> , <b>2014</b> , 39, 2358-61	3	47
95	An ensemble machine learning approach for prediction and optimization of modulus of elasticity of recycled aggregate concrete. <i>Construction and Building Materials</i> , <b>2020</b> , 244, 118271	6.7	45
94	Microwave Interrogated Sapphire Fiber Michelson Interferometer for High Temperature Sensing. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 1398-1401	2.2	44
93	Coaxial cable Bragg grating. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113517	3.4	42
92	A coaxial cable Fabry-Perot interferometer for sensing applications. <i>Sensors</i> , <b>2013</b> , 13, 15252-60	3.8	37
91	Rayleigh backscattering based macrobending single mode fiber for distributed refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 346-350	8.5	36
90	Probing Nanostrain via a Mechanically Designed Optical Fiber Interferometer. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1348-1351	2.2	34
89	Long-Period Grating Inscribed on Concatenated Double-Clad and Single-Clad Fiber for Simultaneous Measurement of Temperature and Refractive Index. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1130-1132	2.2	33
88	Microwave assisted reconstruction of optical interferograms for distributed fiber optic sensing. <i>Optics Express</i> , <b>2013</b> , 21, 18152-9	3.3	30
87	Optical fiber sensor based on a radio frequency Mach-Zehnder interferometer. <i>Optics Letters</i> , <b>2012</b> , 37, 647-9	3	30
86	Coaxial cable Bragg grating sensors for large strain measurement with high accuracy <b>2012</b> ,		27
85	Chemical Detection Using a Metal-Organic Framework Single Crystal Coupled to an Optical Fiber. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 4393-4398	9.5	27
84	Microwave interrogated large core fused silica fiber Michelson interferometer for strain sensing. <i>Applied Optics</i> , <b>2015</b> , 54, 7181-7	0.2	26
83	Turn-Around-Point Long-Period Fiber Gratings Fabricated by CO <sub>2</sub> Laser Point-by-Point Irradiations. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1664-1666	2.2	26

82	A Miniaturized Optical Fiber Tip High-Temperature Sensor Based on Concave-Shaped Fabry-Perot Cavity. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 35-38	2.2	26
81	Optical Interferometric Pressure Sensor Based on a Buckled Beam With Low-Temperature Cross-Sensitivity. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 950-955	5.2	23
80	Probing changes in tilt angle with 20 nanoradian resolution using an extrinsic Fabry-Perot interferometer-based optical fiber inclinometer. <i>Optics Express</i> , <b>2018</b> , 26, 2546-2556	3.3	21
79	Machine learning as a tool to design glasses with controlled dissolution for healthcare applications. <i>Acta Biomaterialia</i> , <b>2020</b> , 107, 286-298	10.8	20
78	Reflection based Extraordinary Optical Transmission Fiber Optic Probe for Refractive Index Sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 95-99	8.5	20
77	A Displacement Sensor With Centimeter Dynamic Range and Submicrometer Resolution Based on an Optical Interferometer. <i>IEEE Sensors Journal</i> , <b>2017</b> , 1-1	4	20
76	Interferogram Reconstruction of Cascaded Coaxial Cable Fabry-Perot Interferometers for Distributed Sensing Application. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4495-4500	4	19
75	Comparison of Silica and Sapphire Fiber SERS Probes Fabricated by a Femtosecond Laser. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1299-1302	2.2	19
74	Integrated Chemical Vapor Sensor Based on Thin Wall Capillary Coupled Porous Glass Microsphere Optical Resonator. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 332-336	8.5	16
73	An Optical Interferometric Triaxial Displacement Sensor for Structural Health Monitoring: Characterization of Sliding and Debonding for a Delamination Process. <i>Sensors</i> , <b>2017</b> , 17,	3.8	16
72	Metal-organic framework portable chemical sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 321, 128608.5	8.5	16
71	Machine learning to predict properties of fresh and hardened alkali-activated concrete. <i>Cement and Concrete Composites</i> , <b>2021</b> , 115, 103863	8.6	16
70	A hollow coaxial cable Fabry-Perot resonator for liquid dielectric constant measurement. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 045003	1.7	15
69	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	15
68	Progress Toward Sapphire Optical Fiber Sensors for High-Temperature Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 8639-8655	5.2	14
67	CAMKs support development of acute myeloid leukemia. <i>Journal of Hematology and Oncology</i> , <b>2018</b> , 11, 30	22.4	13
66	Soft Prosthetic Forefinger Tactile Sensing via a String of Intact Single Mode Optical Fiber. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7455-7459	4	13
65	A Liquid-Level Sensor Based on a Hollow Coaxial Cable Fabry-Perot Resonator With Micrometer Resolution. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 2892-2897	5.2	13

64	Displacement and Strain Measurement up to 1000 °C Using a Hollow Coaxial Cable Fabry-Perot Resonator. <i>Sensors</i> , <b>2018</b> , 18,	3.8	12
63	A Spatially Distributed Fiber-Optic Temperature Sensor for Applications in the Steel Industry. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12
62	Sensitivity-enhanced microwave-photonic optical fiber interferometry based on the Vernier effect. <i>Optics Express</i> , <b>2021</b> , 29, 16820-16832	3.3	12
61	Coaxial cable Bragg grating assisted microwave coupler. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 0147037	3.7	11
60	Unclonable Optical Fiber Identification Based on Rayleigh Backscattering Signatures. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 4634-4640	4	11
59	A Dual-Parameter Internally Calibrated Fabry-Perot Microcavity Sensor. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 2511-2517	4	11
58	Probing Changes in Pressure With Subpascal Resolution Using an Optical Fiber Fabry-Perot Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 6556-6563	5.2	10
57	A Centimeter-Range Displacement Sensor Based on a Hollow Coaxial Cable Fabry-Perot Resonator. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 4436-4442	4	10
56	Microcavity strain sensor for high temperature applications. <i>Optical Engineering</i> , <b>2014</b> , 53, 017105	1.1	10
55	Ultra-Sensitive Microwave-Photonic Optical Fiber Interferometry Based on Phase-Shift Amplification. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2021</b> , 27, 1-8	3.8	10
54	A High-Resolution 2-D Fiber Optic Inclinometer for Structural Health Monitoring Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 6544-6555	5.2	9
53	Fiber optic sensors enabled monitoring of thermal curling of concrete pavement slab: Temperature, strain and inclination. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 165, 108203	4.6	9
52	Contactless liquid interface measurement based on a hollow coaxial cable resonator. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 285, 623-627	3.9	9
51	High Quality Factor Coaxial Cable Fabry-Perot Resonator for Sensing Applications. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 3052-3057	4	8
50	A Compact Double-Folded Substrate Integrated Waveguide Re-Entrant Cavity for Highly Sensitive Humidity Sensing. <i>Sensors</i> , <b>2019</b> , 19,	3.8	8
49	An embeddable optical strain gauge based on a buckled beam. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 115002	1.7	8
48	Control of critical coupling in a coiled coaxial cable resonator. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 054701	1.7	8
47	Spatially continuous strain monitoring using distributed fiber optic sensors embedded in carbon fiber composites. <i>Optical Engineering</i> , <b>2019</b> , 58, 1	1.1	8

46	Probing the Theoretical Ultimate Limit of Coaxial Cable Sensing: Measuring Nanometer-Scale Displacements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 816-823	4.1	8
45	Modeling of Coaxial Cable Bragg Grating by Coupled Mode Theory. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 2251-2259	4.1	7
44	Fiber optic sensor embedded smart helmet for real-time impact sensing and analysis through machine learning. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 351, 109073	3	7
43	Microwave-photonic optical fiber interferometers for refractive index sensing with high sensitivity and a tunable dynamic range. <i>Optics Letters</i> , <b>2021</b> , 46, 2180-2183	3	7
42	Measuring the heterogeneity of cement paste by truly distributed optical fiber sensors. <i>Construction and Building Materials</i> , <b>2019</b> , 225, 765-771	6.7	6
41	Monitoring Passive Film Growth on Steel Using Fe-C Coated Long Period Grating Fiber Sensor. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 6748-6755	4	6
40	Highly sensitive open-ended coaxial cable-based microwave resonator for humidity sensing. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 314, 112244	3.9	6
39	Machine learning enables prompt prediction of hydration kinetics of multicomponent cementitious systems. <i>Scientific Reports</i> , <b>2021</b> , 11, 3922	4.9	6
38	A Uniform Strain Transfer Scheme for Accurate Distributed Optical Fiber Strain Measurements in Civil Structures. <i>Inventions</i> , <b>2018</b> , 3, 30	2.9	6
37	Truly Distributed Coaxial Cable Sensing Based on Random Inhomogeneities. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 4600-4607	5.2	5
36	One-dimensional sensor learns to sense three-dimensional space. <i>Optics Express</i> , <b>2020</b> , 28, 19374-19389	3.3	5
35	Microwave device inspired by fiber-optic extrinsic Fabry-Perot interferometer: a novel ultra-sensitive sensing platform.. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 38, 6961-6966	4	5
34	. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 19647-19661	4	5
33	High-Temperature and High-Sensitivity Pressure Sensors Based on Microwave Resonators. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 18781-18792	4	5
32	Machine learning for high-fidelity prediction of cement hydration kinetics in blended systems. <i>Materials and Design</i> , <b>2021</b> , 208, 109920	8.1	5
31	Radio frequency interrogated actively mode-locked fiber ring laser for sensing application. <i>Optics Letters</i> , <b>2012</b> , 37, 494-6	3	4
30	Distributed Fiber-Optic Sensing With Low Bending Loss Based on Thin-Core Fiber. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 7672-7680	4	4
29	High-temperature stable FBGs fabricated by a point-by-point femtosecond laser inscription for multi-parameter sensing. <i>OSA Continuum</i> , <b>2021</b> , 4, 355	1.4	4

28	A Novel Differential Capacitive Humidity Sensor on SIW Re-Entrant Cavity Microwave Resonators With PEDOT:PSS Film. <i>IEEE Sensors Journal</i> , <b>2022</b> , 22, 6576-6585	4	4
27	Transmission Line Identification via Impedance Inhomogeneity Pattern. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2019</b> , 3, 245-251	2.4	3
26	A Microwave Photonics Fiber Loop Ring-Down System. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 6565-6570	4	3
25	An Embeddable Strain Sensor with 30 Nano-Strain Resolution Based on Optical Interferometry. <i>Inventions</i> , <b>2018</b> , 3, 20	2.9	3
24	Machine learning identifies liquids employing a simple fiber-optic tip sensor. <i>Optics Express</i> , <b>2021</b> , 29, 40000-40014	3.3	3
23	2-D Tilt Sensor Based on Coaxial Cable Fabry-Perot Resonators With Submicroradian Resolution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	2
22	Optical fiber Fabry-Perot interferometer coupled to a 3-D integrated waveguide for 3-D position sensing. <i>Optics Letters</i> , <b>2021</b> , 46, 5838-5841	3	2
21	Smart Fiber-optic Inclinator <b>2020</b> ,		2
20	Mitigation of thermal curling of concrete slab using phase change material: A feasibility study. <i>Cement and Concrete Composites</i> , <b>2021</b> , 120, 104021	8.6	2
19	Functional Plasmonic Fiber-Optic Based Sensors Using Low-Cost Microsphere Photolithography <b>2019</b> ,		2
18	. <i>IEEE Access</i> , <b>2021</b> , 9, 32627-32633	3.5	2
17	Shell Measurements and Mold Thermal Mapping Approach to Characterize Steel Shell Formation in Peritectic Grade Steels. <i>Steel Research International</i> , 2100455	1.6	2
16	Sensitivity-Enhanced Fiber-Optic Sensor in a Microwave Photonics Fiber Loop Ringdown System. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	2
15	Microsphere Photolithography Patterning of Plasmonic Sensors on Optical Fiber <b>2019</b> ,		1
14	NMR studies of materials loaded into porous-wall hollow glass microspheres. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111177	8.3	1
13	Strain monitoring using distributed fiber optic sensors embedded in carbon fiber composites <b>2018</b> ,		1
12	Optical Interferometric Force Sensor Based on a Buckled Beam. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	1
11	A Deep Learning Approach to Design and Discover Sustainable Cementitious Binders: Strategies to Learn From Small Databases and Develop Closed-form Analytical Models. <i>Frontiers in Materials</i> , <b>2022</b> , 8,	4	1

10	Thermal Mapping of Metal Casting Mold Using High-Resolution Distributed Fiber-Optic Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10	5.2	1
9	Truly distributed coaxial cable sensing based on random inhomogeneities <b>2019</b> ,		1
8	Low-cost fabrication of functional plasmonic fiber-optic-based sensors using microsphere photolithography <b>2019</b> ,		1
7	Ultrasensitive Open-Ended Coaxial Cable-Based Microwave Resonator Learns to Sense Impacts. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9	5.2	1
6	Off-axis microsphere photolithography patterned nanohole array and other structures on an optical fiber tip for glucose sensing.. <i>RSC Advances</i> , <b>2021</b> , 11, 25912-25920	3.7	1
5	Capillary-tube package devices for the quantitative performance evaluation of nuclear magnetic resonance spectrometers and pulse sequences. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 123115	1.7	1
4	Machine Learning Enabled Models to Predict Sulfur Solubility in Nuclear Waste Glasses. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 53375-53387	9.5	1
3	Micromachined Optical Fiber Sensors for Biomedical Applications. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2393, 367-414	1.4	0
2	Predicting compressive strength of alkali-activated systems based on the network topology and phase assemblages using tree-structure computing algorithms. <i>Construction and Building Materials</i> , <b>2022</b> , 336, 127557	6.7	0
1	Machine Learning Assisted High-Sensitivity and Large-Dynamic-Range Curvature Sensor Based on No-Core Fiber and Hollow-Core Fiber. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	