

Jie Huang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6539265/jie-huang-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	2-D Tilt Sensor Based on Coaxial Cable Fabry-Perot Resonators With Submicroradian Resolution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	2
98	Micromachined Optical Fiber Sensors for Biomedical Applications. <i>Methods in Molecular Biology</i> , 2022 , 2393, 367-414	1.4	0
97	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> , 2022 , 8,	4	1
96	A Novel Differential Capacitive Humidity Sensor on SIW Re-Entrant Cavity Microwave Resonators With PEDOT:PSS Film. <i>IEEE Sensors Journal</i> , 2022 , 22, 6576-6585	4	4
95	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> , 2022 , 336, 127557	6.7	0
94	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> , 2022 , 1-1	4	
93	Sensitivity-Enhanced Fiber-Optic Sensor in a Microwave Photonics Fiber Loop Ringdown System. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	2
92	Machine learning identifies liquids employing a simple fiber-optic tip sensor. <i>Optics Express</i> , 2021 , 29, 40000-40014	3.3	3
91	Optical fiber Fabry-Perot interferometer coupled to a 3-D integrated waveguide for 3-D position sensing. <i>Optics Letters</i> , 2021 , 46, 5838-5841	3	2
90	Optical Interferometric Force Sensor Based on a Buckled Beam. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	1
89	Thermal Mapping of Metal Casting Mold Using High-Resolution Distributed Fiber-Optic Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	1
88	Distributed Fiber-Optic Sensing With Low Bending Loss Based on Thin-Core Fiber. <i>IEEE Sensors Journal</i> , 2021 , 21, 7672-7680	4	4
87	Fiber optic sensor embedded smart helmet for real-time impact sensing and analysis through machine learning. <i>Journal of Neuroscience Methods</i> , 2021 , 351, 109073	3	7
86	Microwave-photonic optical fiber interferometers for refractive index sensing with high sensitivity and a tunable dynamic range. <i>Optics Letters</i> , 2021 , 46, 2180-2183	3	7
85	Sensitivity-enhanced microwave-photonic optical fiber interferometry based on the Vernier effect. <i>Optics Express</i> , 2021 , 29, 16820-16832	3.3	12
84	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	15
83	Mitigation of thermal curling of concrete slab using phase change material: A feasibility study. <i>Cement and Concrete Composites</i> , 2021 , 120, 104021	8.6	2

82	Machine learning to predict properties of fresh and hardened alkali-activated concrete. <i>Cement and Concrete Composites</i> , 2021 , 115, 103863	8.6	16
81	Ultrasensitive Open-Ended Coaxial Cable-Based Microwave Resonator Learns to Sense Impacts. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	1
80	High-temperature stable FBGs fabricated by a point-by-point femtosecond laser inscription for multi-parameter sensing. <i>OSA Continuum</i> , 2021 , 4, 355	1.4	4
79	Off-axis microsphere photolithography patterned nanohole array and other structures on an optical fiber tip for glucose sensing.. <i>RSC Advances</i> , 2021 , 11, 25912-25920	3.7	1
78	. <i>IEEE Access</i> , 2021 , 9, 32627-32633	3.5	2
77	Machine learning enables prompt prediction of hydration kinetics of multicomponent cementitious systems. <i>Scientific Reports</i> , 2021 , 11, 3922	4.9	6
76	. <i>IEEE Sensors Journal</i> , 2021 , 21, 19647-19661	4	5
75	Machine Learning Enabled Models to Predict Sulfur Solubility in Nuclear Waste Glasses. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53375-53387	9.5	1
74	High-Temperature and High-Sensitivity Pressure Sensors Based on Microwave Resonators. <i>IEEE Sensors Journal</i> , 2021 , 21, 18781-18792	4	5
73	Machine learning for high-fidelity prediction of cement hydration kinetics in blended systems. <i>Materials and Design</i> , 2021 , 208, 109920	8.1	5
72	Ultra-Sensitive Microwave-Photonic Optical Fiber Interferometry Based on Phase-Shift Amplification. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-8	3.8	10
71	NMR studies of materials loaded into porous-wall hollow glass microspheres. <i>Materials Science and Engineering C</i> , 2020 , 116, 111177	8.3	1
70	Probing Changes in Pressure With Subpascal Resolution Using an Optical Fiber FabryPerot Interferometer. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6556-6563	5.2	10
69	Machine learning as a tool to design glasses with controlled dissolution for healthcare applications. <i>Acta Biomaterialia</i> , 2020 , 107, 286-298	10.8	20
68	An ensemble machine learning approach for prediction and optimization of modulus of elasticity of recycled aggregate concrete. <i>Construction and Building Materials</i> , 2020 , 244, 118271	6.7	45
67	A High-Resolution 2-D Fiber Optic Inclinator for Structural Health Monitoring Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 6544-6555	5.2	9
66	One-dimensional sensor learns to sense three-dimensional space. <i>Optics Express</i> , 2020 , 28, 19374-19389	3.3	5
65	Smart Fiber-optic Inclinator 2020 ,		2

64	Probing the Theoretical Ultimate Limit of Coaxial Cable Sensing: Measuring Nanometer-Scale Displacements. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 816-823	4.1	8
63	A Dual-Parameter Internally Calibrated Fabry-Perot Microcavity Sensor. <i>IEEE Sensors Journal</i> , 2020 , 20, 2511-2517	4	11
62	Metal-organic framework portable chemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 321, 128608.5		16
61	A Spatially Distributed Fiber-Optic Temperature Sensor for Applications in the Steel Industry. <i>Sensors</i> , 2020 , 20,	3.8	12
60	Highly sensitive open-ended coaxial cable-based microwave resonator for humidity sensing. <i>Sensors and Actuators A: Physical</i> , 2020 , 314, 112244	3.9	6
59	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> , 2020 , 165, 108203	4.6	9
58	Progress Toward Sapphire Optical Fiber Sensors for High-Temperature Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 8639-8655	5.2	14
57	Microwave device inspired by fiber-optic extrinsic Fabry-Perot interferometer: a novel ultra-sensitive sensing platform.. <i>Journal of Lightwave Technology</i> , 2020 , 38, 6961-6966	4	5
56	Microsphere Photolithography Patterning of Plasmonic Sensors on Optical Fiber 2019 ,		1
55	Transmission Line Identification via Impedance Inhomogeneity Pattern. <i>IEEE Journal of Radio Frequency Identification</i> , 2019 , 3, 245-251	2.4	3
54	Measuring the heterogeneity of cement paste by truly distributed optical fiber sensors. <i>Construction and Building Materials</i> , 2019 , 225, 765-771	6.7	6
53	Truly Distributed Coaxial Cable Sensing Based on Random Inhomogeneities. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4600-4607	5.2	5
52	Monitoring Passive Film Growth on Steel Using Fe-C Coated Long Period Grating Fiber Sensor. <i>IEEE Sensors Journal</i> , 2019 , 19, 6748-6755	4	6
51	A Compact Double-Folded Substrate Integrated Waveguide Re-Entrant Cavity for Highly Sensitive Humidity Sensing. <i>Sensors</i> , 2019 , 19,	3.8	8
50	Spatially continuous strain monitoring using distributed fiber optic sensors embedded in carbon fiber composites. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	8
49	Truly distributed coaxial cable sensing based on random inhomogeneities 2019 ,		1
48	Low-cost fabrication of functional plasmonic fiber-optic-based sensors using microsphere photolithography 2019 ,		1
47	Functional Plasmonic Fiber-Optic Based Sensors Using Low-Cost Microsphere Photolithography 2019 ,		2

46	Chemical Detection Using a Metal-Organic Framework Single Crystal Coupled to an Optical Fiber. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4393-4398	9.5	27
45	A Miniaturized Optical Fiber Tip High-Temperature Sensor Based on Concave-Shaped Fabry-Perot Cavity. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 35-38	2.2	26
44	Contactless liquid interface measurement based on a hollow coaxial cable resonator. <i>Sensors and Actuators A: Physical</i> , 2019 , 285, 623-627	3.9	9
43	Optical Interferometric Pressure Sensor Based on a Buckled Beam With Low-Temperature Cross-Sensitivity. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 950-955	5.2	23
42	A hollow coaxial cable Fabry-Perot resonator for liquid dielectric constant measurement. <i>Review of Scientific Instruments</i> , 2018 , 89, 045003	1.7	15
41	A Centimeter-Range Displacement Sensor Based on a Hollow Coaxial Cable Fabry-Perot Resonator. <i>IEEE Sensors Journal</i> , 2018 , 18, 4436-4442	4	10
40	Probing changes in tilt angle with 20 nanoradian resolution using an extrinsic Fabry-Perot interferometer-based optical fiber inclinometer. <i>Optics Express</i> , 2018 , 26, 2546-2556	3.3	21
39	An Embeddable Strain Sensor with 30 Nano-Strain Resolution Based on Optical Interferometry. <i>Inventions</i> , 2018 , 3, 20	2.9	3
38	Displacement and Strain Measurement up to 1000 °C Using a Hollow Coaxial Cable Fabry-Perot Resonator. <i>Sensors</i> , 2018 , 18,	3.8	12
37	CAMKs support development of acute myeloid leukemia. <i>Journal of Hematology and Oncology</i> , 2018 , 11, 30	22.4	13
36	Strain monitoring using distributed fiber optic sensors embedded in carbon fiber composites 2018 ,		1
35	A Uniform Strain Transfer Scheme for Accurate Distributed Optical Fiber Strain Measurements in Civil Structures. <i>Inventions</i> , 2018 , 3, 30	2.9	6
34	Capillary-tube package devices for the quantitative performance evaluation of nuclear magnetic resonance spectrometers and pulse sequences. <i>Review of Scientific Instruments</i> , 2018 , 89, 123115	1.7	1
33	A Liquid-Level Sensor Based on a Hollow Coaxial Cable Fabry-Perot Resonator With Micrometer Resolution. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 2892-2897	5.2	13
32	Rayleigh backscattering based macrobending single mode fiber for distributed refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 346-350	8.5	36
31	High Quality Factor Coaxial Cable Fabry-Perot Resonator for Sensing Applications. <i>IEEE Sensors Journal</i> , 2017 , 17, 3052-3057	4	8
30	A Microwave Photonics Fiber Loop Ring-Down System. <i>IEEE Sensors Journal</i> , 2017 , 17, 6565-6570	4	3
29	A Displacement Sensor With Centimeter Dynamic Range and Submicrometer Resolution Based on an Optical Interferometer. <i>IEEE Sensors Journal</i> , 2017 , 1-1	4	20

28	An embeddable optical strain gauge based on a buckled beam. <i>Review of Scientific Instruments</i> , 2017 , 88, 115002	1.7	8
27	Probing Nanostrain via a Mechanically Designed Optical Fiber Interferometer. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1348-1351	2.2	34
26	Unclonable Optical Fiber Identification Based on Rayleigh Backscattering Signatures. <i>Journal of Lightwave Technology</i> , 2017 , 35, 4634-4640	4	11
25	Soft Prosthetic Forefinger Tactile Sensing via a String of Intact Single Mode Optical Fiber. <i>IEEE Sensors Journal</i> , 2017 , 17, 7455-7459	4	13
24	An Optical Interferometric Triaxial Displacement Sensor for Structural Health Monitoring: Characterization of Sliding and Debonding for a Delamination Process. <i>Sensors</i> , 2017 , 17,	3.8	16
23	Interferogram Reconstruction of Cascaded Coaxial Cable Fabry-Perot Interferometers for Distributed Sensing Application. <i>IEEE Sensors Journal</i> , 2016 , 16, 4495-4500	4	19
22	Integrated Chemical Vapor Sensor Based on Thin Wall Capillary Coupled Porous Glass Microsphere Optical Resonator. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 332-336	8.5	16
21	Microwave Interrogated Sapphire Fiber Michelson Interferometer for High Temperature Sensing. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1398-1401	2.2	44
20	Microwave interrogated large core fused silica fiber Michelson interferometer for strain sensing. <i>Applied Optics</i> , 2015 , 54, 7181-7	0.2	26
19	Reflection based Extraordinary Optical Transmission Fiber Optic Probe for Refractive Index Sensing. <i>Sensors and Actuators B: Chemical</i> , 2014 , 193, 95-99	8.5	20
18	Comparison of Silica and Sapphire Fiber SERS Probes Fabricated by a Femtosecond Laser. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1299-1302	2.2	19
17	Modeling of Coaxial Cable Bragg Grating by Coupled Mode Theory. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2251-2259	4.1	7
16	Coaxial cable Bragg grating assisted microwave coupler. <i>Review of Scientific Instruments</i> , 2014 , 85, 014703	2.7	11
15	Spatially continuous distributed fiber optic sensing using optical carrier based microwave interferometry. <i>Optics Express</i> , 2014 , 22, 18757-69	3.3	63
14	Microcavity strain sensor for high temperature applications. <i>Optical Engineering</i> , 2014 , 53, 017105	1.1	10
13	Control of critical coupling in a coiled coaxial cable resonator. <i>Review of Scientific Instruments</i> , 2014 , 85, 054701	1.7	8
12	All-in-fiber optofluidic sensor fabricated by femtosecond laser assisted chemical etching. <i>Optics Letters</i> , 2014 , 39, 2358-61	3	47
11	High-temperature fiber-optic Fabry-Perot interferometric pressure sensor fabricated by femtosecond laser. <i>Optics Letters</i> , 2013 , 38, 4609-12	3	113

10	Microwave assisted reconstruction of optical interferograms for distributed fiber optic sensing. <i>Optics Express</i> , 2013 , 21, 18152-9	3.3	30
9	A coaxial cable Fabry-Perot interferometer for sensing applications. <i>Sensors</i> , 2013 , 13, 15252-60	3.8	37
8	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> , 2012 , 24, 1130-1132	2.2	33
7	Coaxial cable Bragg grating sensors for large strain measurement with high accuracy 2012 ,		27
6	Polymer optical fiber for large strain measurement based on multimode interference. <i>Optics Letters</i> , 2012 , 37, 4308-10	3	61
5	Optical fiber sensor based on a radio frequency Mach-Zehnder interferometer. <i>Optics Letters</i> , 2012 , 37, 647-9	3	30
4	Radio frequency interrogated actively mode-locked fiber ring laser for sensing application. <i>Optics Letters</i> , 2012 , 37, 494-6	3	4
3	Coaxial cable Bragg grating. <i>Applied Physics Letters</i> , 2011 , 99, 113517	3.4	42
2	Turn-Around-Point Long-Period Fiber Gratings Fabricated by CO ₂ Laser Point-by-Point Irradiations. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1664-1666	2.2	26
1	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