

# Yu Wang

## List of Publications by Year in descending order

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54  
papers

972  
citations

567281

15  
h-index

454955

30  
g-index

55  
all docs

55  
docs citations

55  
times ranked

711  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Fiber-Optic Sensors for Vibration Detection. <i>Sensors</i> , 2016, 16, 1164.	3.8	158
2	A Comprehensive Study of Optical Fiber Acoustic Sensing. <i>IEEE Access</i> , 2019, 7, 85821-85837.	4.2	78
3	Recent Advances in Brillouin Optical Time Domain Reflectometry. <i>Sensors</i> , 2019, 19, 1862.	3.8	77
4	Real-Time Distributed Vibration Monitoring System Using $\Phi$ -OTDR. <i>IEEE Sensors Journal</i> , 2017, 17, 1333-1341.	4.7	67
5	Long-Range Raman Distributed Fiber Temperature Sensor With Early Warning Model for Fire Detection and Prevention. <i>IEEE Sensors Journal</i> , 2019, 19, 3711-3717.	4.7	52
6	Pattern Recognition Using Relevant Vector Machine in Optical Fiber Vibration Sensing System. <i>IEEE Access</i> , 2019, 7, 5886-5895.	4.2	48
7	Pattern Recognition for Distributed Optical Fiber Vibration Sensing: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 11983-11998.	4.7	48
8	Recent Progress in the Performance Enhancement of Phase-Sensitive OTDR Vibration Sensing Systems. <i>Sensors</i> , 2019, 19, 1709.	3.8	47
9	Partial Discharge Ultrasound Detection Using the Sagnac Interferometer System. <i>Sensors</i> , 2018, 18, 1425.	3.8	40
10	A Comprehensive Study of Optical Frequency Domain Reflectometry. <i>IEEE Access</i> , 2021, 9, 41647-41668.	4.2	40
11	Design and Implementation of an Intrinsically Safe Liquid-Level Sensor Using Coaxial Cable. <i>Sensors</i> , 2015, 15, 12613-12634.	3.8	28
12	Phase Demodulation Methods for Optical Fiber Vibration Sensing System: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 1842-1866.	4.7	23
13	Eliminating Phase Drift for Distributed Optical Fiber Acoustic Sensing System with Empirical Mode Decomposition. <i>Sensors</i> , 2019, 19, 5392.	3.8	20
14	Distributed optical fiber vibration sensor using generalized cross-correlation algorithm. Measurement: Journal of the International Measurement Confederation, 2019, 144, 58-66.	5.0	17
15	Enhancing the SNR of BOTDR by Gain-Switched Modulation. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 283-286.	2.5	17
16	Pulse Coding in Distributed Optical Fiber Vibration Sensor: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 22371-22387.	4.7	13
17	Quasi-Distributed Optical Fiber Sensor for Liquid-Level Measurement. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	2.0	12
18	Adaptability and Anti-Noise Capacity Enhancement for $\Phi$ -OTDR With Deep Learning. <i>Journal of Lightwave Technology</i> , 2020, 38, 6699-6706.	4.6	11

#	ARTICLE	IF	CITATIONS
19	Optical Fiber Vibration Sensor Using Least Mean Square Error Algorithm. <i>Sensors</i> , 2020, 20, 2000.	3.8	11
20	Random coding method for SNR enhancement of BOTDR. <i>Optics Express</i> , 2022, 30, 11604.	3.4	11
21	Optical Fiber Vibration Sensor Using Chaotic Laser. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 1336-1339.	2.5	10
22	Crosstalk Noise Suppressed for Multi-frequency $\hat{\nu}$ -OTDR Using Compressed Sensing. <i>Journal of Lightwave Technology</i> , 2021, 39, 7343-7350.	4.6	10
23	Distributed Optical Fiber Low-Frequency Vibration Detecting Using Cross-Correlation Spectrum Analysis. <i>Journal of Lightwave Technology</i> , 2020, 38, 6664-6670.	4.6	9
24	Remote Simultaneous Measurement of Liquid Temperature and Refractive Index Using Fiber-Optic Spontaneous Raman Scattering. <i>IEEE Sensors Journal</i> , 2019, 19, 10513-10518.	4.7	8
25	Frequency drift mitigation of $\hat{\nu}$ -OTDR using difference-fitting method. <i>Applied Optics</i> , 2021, 60, 459.	1.8	8
26	Sagnac Vibration Sensing System With Nested Pulse Method. <i>Journal of Lightwave Technology</i> , 2021, 39, 1550-1556.	4.6	8
27	Design and Performance Analysis of an Intrinsically Safe Ultrasonic Ranging Sensor. <i>Sensors</i> , 2016, 16, 867.	3.8	7
28	The Influence of Laser Linewidth on the Brillouin Shift Frequency Accuracy of BOTDR. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 58.	2.5	7
29	Interference Fading Suppression Using Active Frequency Transformation Method With Auxiliary Interferometer Feedback. <i>Journal of Lightwave Technology</i> , 2022, 40, 872-879.	4.6	7
30	Spatial Resolution Enhancement of OFDR Sensing System Using Phase-Domain-Interpolation Resampling Method. <i>IEEE Sensors Journal</i> , 2022, 22, 3202-3210.	4.7	7
31	Real-Time Phase-Sensitive OTDR Based on Data Matrix Matching Method. <i>Sensors</i> , 2018, 18, 1883.	3.8	6
32	Optical fiber liquid refractive index sensor based on Fresnel reflection of anti-Stokes light. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 140-144.	4.1	6
33	Distributed acoustic sensor based on improved minimum control recursive average algorithm. <i>Optical Fiber Technology</i> , 2019, 50, 125-131.	2.7	6
34	Polarization Fading Suppression for Optical Fiber Sensing: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 8295-8312.	4.7	5
35	Neel Effect Toroidal Current Sensor. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 81-84.	2.1	4
36	Adaptive Flattop Beam Shaping With a Spatial Light Modulator Controlled by the Holographic Tandem Method. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	2.0	4

#	ARTICLE	IF	CITATIONS
37	A Logarithmic Detection Scheme in BOTDR With Low-Bandwidth Requests. IEEE Access, 2018, 6, 74828-74835.	4.2	4
38	Chaotic Correlation Optical Fiber Liquid Level Sensor. Journal of Lightwave Technology, 2019, 37, 1023-1028.	4.6	4
39	Co-Processing Parallel Computation for Distributed Optical Fiber Vibration Sensing. Applied Sciences (Switzerland), 2020, 10, 1747.	2.5	4
40	New RF EMUS Transducer for Complex Fluid Characterization. IEEE Transactions on Magnetics, 2013, 49, 132-135.	2.1	3
41	Optical fiber microphones based on twice envelope demodulation algorithm. Sensors and Actuators A: Physical, 2019, 297, 111555.	4.1	3
42	Long-Distance Detection for Periodic Vibration Signal in $\hat{\nu}$ -OTDR System Using Global Phase Demodulation Method. IEEE Sensors Journal, 2021, 21, 26799-26804.	4.7	3
43	Detection Range Enhancement for $\hat{\nu}$ -OTDR Using Semantic Image Segmentation. Journal of Lightwave Technology, 2022, 40, 4886-4895.	4.6	3
44	Multiresolution Phase Compensation for Phase-Sensitive OTDR. IEEE Sensors Journal, 2022, 22, 14937-14943.	4.7	3
45	Transformerless Ultrasonic Ranging System with the Feature of Intrinsic Safety for Explosive Environment. Sensors, 2018, 18, 4397.	3.8	2
46	Coherent Optical Pulse Phase Rotation Reflectometry Insensitive to I/Q Quadrature Imbalance. IEEE Sensors Journal, 2020, 20, 1336-1342.	4.7	2
47	Multi-parameter CBM pipeline safety monitoring system based on optical fiber sensing. , 2018, , .		2
48	Fast Peak Searching Method for Brillouin Gain Spectrum Using Positive-slope Inflection Point. Journal of Lightwave Technology, 2021, , 1-1.	4.6	2
49	Polarization Fading Suppression of $\hat{\nu}$ -OTDR with Rayleigh Grayscale Pattern Aggregation Method. Applied Optics, 2021, 60, 10429-10436.	1.8	2
50	Optical fiber vibration sensing system using delay line method. Microwave and Optical Technology Letters, 2019, 61, 853-857.	1.4	1
51	Stability Enhancement of BOTDR Strain Sensing System by Using SOA-Based-Gain-Switched Modulation. , 2020, , .		1
52	Adaptive Pulse Period Method for Low-Frequency Vibration Sensing With Intensity-Based Phase-Sensitive OTDR Systems. IEEE Access, 2020, 8, 41838-41846.	4.2	1
53	Envelope Extraction for Vibration Locating in Coherent $\hat{\nu}$ -OTDR. Sensors, 2022, 22, 1197.	3.8	1
54	High-Resolution and Large-Sensing-Range Liquid-Level Sensor Based on Optical Frequency Domain Reflectometry and No-Core Fiber. Sensors, 2022, 22, 4480.	3.8	0