

# Ping Lu

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,700  
citations

279798

23  
h-index

361022

35  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1569  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed optical fiber sensing: Review and perspective. <i>Applied Physics Reviews</i> , 2019, 6, .	11.3	368
2	Metal-Organic Framework Thin Film Coated Optical Fiber Sensors: A Novel Waveguide-Based Chemical Sensing Platform. <i>ACS Sensors</i> , 2018, 3, 386-394.	7.8	134
3	Long-Range High Spatial Resolution Distributed Temperature and Strain Sensing Based on Optical Frequency-Domain Reflectometry. <i>IEEE Photonics Journal</i> , 2014, 6, 1-8.	2.0	129
4	Extreme Environment Sensing Using Femtosecond Laser-Inscribed Fiber Bragg Gratings. <i>Sensors</i> , 2017, 17, 2909.	3.8	93
5	Theoretical and Experimental Analysis of O-OTDR Based on Polarization Diversity Detection. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 697-700.	2.5	88
6	Corrosion Sensors for Structural Health Monitoring of Oil and Natural Gas Infrastructure: A Review. <i>Sensors</i> , 2019, 19, 3964.	3.8	86
7	Recent Advances in Machine Learning for Fiber Optic Sensor Applications. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	73
8	Fast state of polarization changes in aerial fiber under different climatic conditions. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 1035-1037.	2.5	58
9	Characterization of the Birefringence in Fiber Bragg Gratings Fabricated With an Ultrafast-Infrared Laser. <i>Journal of Lightwave Technology</i> , 2007, 25, 779-786.	4.6	49
10	Fiber Bragg grating sensor for simultaneous measurement of flow rate and direction. <i>Measurement Science and Technology</i> , 2008, 19, 125302.	2.6	49
11	Simultaneous refractive index and temperature measurements using a tapered bend-resistant fiber interferometer. <i>Optics Letters</i> , 2012, 37, 4567.	3.3	49
12	Real-Time Monitoring of Temperature Rises of Energized Transformer Cores With Distributed Optical Fiber Sensors. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1588-1598.	4.3	40
13	Low-Loss Random Fiber Gratings Made With an fs-IR Laser for Distributed Fiber Sensing. <i>Journal of Lightwave Technology</i> , 2019, 37, 4697-4702.	4.6	35
14	Polarization mode dispersion and polarization dependent loss for a pulse in single-mode fibers. <i>Journal of Lightwave Technology</i> , 2001, 19, 856-860.	4.6	34
15	Quantum Sensing for Energy Applications: Review and Perspective. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100049.	3.9	33
16	Real-Time Optical Fiber-Based Distributed Temperature Monitoring of Insulation Oil-Immersed Commercial Distribution Power Transformer. <i>IEEE Sensors Journal</i> , 2021, 21, 3013-3019.	4.7	31
17	Statistical distribution of polarization-dependent loss in the presence of polarization-mode dispersion in single-mode fibers. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 451-453.	2.5	29
18	Tapered-fiber-based refractive index sensor at an air/solution interface. <i>Applied Optics</i> , 2012, 51, 7368.	1.8	29

#	ARTICLE	IF	CITATIONS
19	Distributed Strain and Temperature Measurement by Brillouin Beat Spectrum. IEEE Photonics Technology Letters, 2013, 25, 1050-1053.	2.5	27
20	Distributed fiber optic pH sensors using sol-gel silica based sensitive materials. Sensors and Actuators B: Chemical, 2021, 340, 129853.	7.8	27
21	Quantum Computing and Simulations for Energy Applications: Review and Perspective. ACS Engineering Au, 2022, 2, 151-196.	5.1	26
22	In-line fiber microcantilever vibration sensor. Applied Physics Letters, 2013, 103, .	3.3	24
23	Self-cleaning, high transmission, near unity haze OTS/silica nanostructured glass. Journal of Materials Chemistry C, 2018, 6, 9191-9199.	5.5	23
24	Integrated Auxiliary Interferometer for Self-Correction of Nonlinear Tuning in Optical Frequency Domain Reflectometry. Journal of Lightwave Technology, 2020, 38, 6097-6103.	4.6	20
25	Study of $\Phi$ -OTDR stability for dynamic strain measurement in piezoelectric vibration. Photonic Sensors, 2016, 6, 199-208.	5.0	18
26	Fundamental Performance Limits and Haze Evaluation of Metal Nanomesh Transparent Conductors. Advanced Optical Materials, 2018, 6, 1700829.	7.3	18
27	Strain measurement range enhanced chirped pulse $\Phi$ -OTDR for distributed static and dynamic strain measurement based on random fiber grating array. Optics Letters, 2020, 45, 6110.	3.3	18
28	Phase-Sensitive Optical Time Domain Reflectometry With Rayleigh Enhanced Optical Fiber. IEEE Access, 2021, 9, 114428-114434.	4.2	17
29	Reel-to-Reel Fabrication of In-Fiber Low-Loss and High-Temperature Stable Rayleigh Scattering Centers for Distributed Sensing. IEEE Sensors Journal, 2020, 20, 11335-11341.	4.7	12
30	Flexible nanoglass with highest combination of transparency and haze for optoelectronic plastic substrates. Nanotechnology, 2018, 29, 42LT01.	2.6	10
31	Pipeline Monitoring Using Highly Sensitive Vibration Sensor Based on Fiber Ring Cavity Laser. Sensors, 2021, 21, 2078.	3.8	10
32	Lateral Stress Detection Using a Tapered Fiber Mach-Zehnder Interferometer. IEEE Photonics Technology Letters, 2012, 24, 2038-2041.	2.5	8
33	The measurement of fast state of polarization changes in aerial fiber. , 0, , .		6
34	Fully distributed optical fiber sensor for water and humidity monitoring. , 2019, , .		6
35	Optical low-coherence reflectometry for deflection measurement with a fiber Bragg grating cantilever sensor. Measurement Science and Technology, 2009, 20, 075303.	2.6	4
36	Dispersion effects of high-order-mode fiber on temperature and axial strain discrimination. Photonic Sensors, 2015, 5, 224-234.	5.0	4

#	ARTICLE	IF	CITATIONS
37	Measurement of CO <sub>2</sub> and Ultrasonic Vibration Based on Tunable Fiber Ring Laser. IEEE Access, 2020, 8, 193340-193346.	4.2	4
38	Low-cost fiber optic sensor array for simultaneous detection of hydrogen and temperature. , 2018, , .		4
39	Review on corrosion sensors for structural health monitoring of oil and natural gas infrastructure. , 2019, , .		3
40	Self-correction of nonlinear sweep of tunable laser source in OFDR. , 2019, , .		2
41	Monitoring internal power transformer temperature using distributed optical fiber sensors. , 2020, , .		2
42	Pulse width dependence of polarization mode dispersion and polarization dependent loss for a pulse and their impacts on pulse broadening. , 0, , .		0
43	Enhanced Signal Processing of Distributed Brillouin Fiber Sensors using a Decoupled Radial Basis Function Network. , 2021, , .		0