Shuang Wang

List of Publications by Year in descending order

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66	852	516710 16	580821 25
papers	citations	h-index	g-index

70	70	70	643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Batch-Producible Fiber-Optic Fabryâ€“PÃ©rot Sensor for Simultaneous Pressure and Temperature Sensing. IEEE Photonics Technology Letters, 2014, 26, 2070-2073.	2.5	55
2	Fiber Optic Fabry-Perot Pressure Sensor With Embedded MEMS Micro-Cavity for Ultra-High Pressure Detection. Journal of Lightwave Technology, 2019, 37, 2719-2725.	4.6	47
3	Differential-pressure-based fiber-optic temperature sensor using Fabryâ€“Perot interferometry. Optics Letters, 2015, 40, 1049.	3.3	45
4	A polarized low-coherence interferometry demodulation algorithm by recovering the absolute phase of a selected monochromatic frequency. Optics Express, 2012, 20, 18117.	3.4	39
5	All-silicon dual-cavity fiber-optic pressure sensor with ultralow pressure-temperature cross-sensitivity and wide working temperature range. Photonics Research, 2021, 9, 521.	7.0	38
6	MoSe₂-Au Based Sensitivity Enhanced Optical Fiber Surface Plasmon Resonance Biosensor for Detection of Goat-Anti-Rabbit IgG. IEEE Access, 2020, 8, 660-668.	4.2	33
7	High-accuracy hybrid fiber-optic Fabry-PÃ©rot sensor based on MEMS for simultaneous gas refractive-index and temperature sensing. Optics Express, 2019, 27, 4204.	3.4	33
8	Noncontact Ultrasonic Detection in Low-Pressure Carbon Dioxide Medium Using High Sensitivity Fiber-Optic Fabryâ€“Perot Sensor System. Journal of Lightwave Technology, 2017, 35, 5079-5085.	4.6	31
9	Assembly-Free-Based Fiber-Optic Micro-Michelson Interferometer for High Temperature Sensing. IEEE Photonics Technology Letters, 2016, 28, 625-628.	2.5	25
10	Zero-fringe demodulation method based on location-dependent birefringence dispersion in polarized low-coherence interferometry. Optics Letters, 2014, 39, 1827.	3.3	23
11	A Combined Events Recognition Scheme Using Hybrid Features in Distributed Optical Fiber Vibration Sensing System. IEEE Access, 2019, 7, 105609-105616.	4.2	21
12	Self-Filtering High-Resolution Dual-Sapphire-Fiber-Based High-Temperature Sensor. Journal of Lightwave Technology, 2019, 37, 1408-1414.	4.6	21
13	Flywheel-like diaphragm-based fiber-optic Fabryâ€“Perot frequency tailored acoustic sensor. Journal Physics D: Applied Physics, 2020, 53, 415102.	2.8	20
14	Birefringence dispersion compensation demodulation algorithm for polarized low-coherence interferometry. Optics Letters, 2013, 38, 3169.	3.3	18
15	Self-marked HCN gas based FBG demodulation in thermal cycling process for aerospace environment. Optics Express, 2018, 26, 22944.	3.4	18
16	All-sapphire-based fiber-optic pressure sensor for high-temperature applications based on wet etching. Optics Express, 2021, 29, 4139.	3.4	18
17	Fiber Optic Magnetic Field Sensor Based on Magnetic Nanoparticle Assembly in Microcapillary Ring Resonator. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	16
18	Ultrasensitive Label-Free Biosensor Based on the Graphene-Oxide-Coated-U-Bent Long-Period Fiber Grating Inscribed in a Two-Mode Fiber. Journal of Lightwave Technology, 2021, 39, 4013-4019.	4.6	16

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19	Fiber optical temperature compensated anemometer based on dual Fabry-Perot sensors with sealed cavity. Optics Express, 2019, 27, 18157.	3.4	15
20	A Compact Fiber Optic Fabryâ€“Perot Sensor for Simultaneous Measurement of Acoustic and Temperature. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	14
21	Hybrid Sapphire Dual-Fabryâ€”Perot-Cavities Sensor for High Temperature and Refractive Index Measurement. Journal of Lightwave Technology, 2021, 39, 3911-3918.	4.6	14
22	Review of Fiber Mechanical and Thermal Multi-Parameter Measurement Technologies and Instrumentation. Journal of Lightwave Technology, 2021, 39, 3724-3739.	4.6	14
23	Multi-layer optical fiber surface plasmon resonance biosensor based on a sandwich structure of polydopamine-MoSe₂@Au nanoparticles-polydopamine. Biomedical Optics Express, 2020, 11, 6840.	2.9	14
24	Temperature Insensitive and Integrated Differential Pressure Sensor for Liquid Level Sensing Based on an Optical Fiber Fabryâ€“Perot Interferometer. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	13
25	Optical fiber Fabryâ€“Perot interferometer based on phase-shifting technique and birefringence crystals. Optics Express, 2018, 26, 21606.	3.4	13
26	Refractive Index Sensor Based on Graphene Oxide-Coated Long-Period Fiber Grating Inscribed in a Two-Mode Fiber. IEEE Access, 2020, 8, 109028-109037.	4.2	13
27	Optical Fiber Distributed Vibration Sensing Using Grayscale Image and Multi-Class Deep Learning Framework for Multi-Event Recognition. IEEE Sensors Journal, 2021, 21, 19112-19120.	4.7	13
28	Temperature Compensation of Optical Fiber Current Sensors With a Static Bias. IEEE Sensors Journal, 2022, 22, 352-356.	4.7	13
29	Non-destructive residual pressure self-measurement method for the sensing chip of optical Fabry-Perot pressure sensor. Optics Express, 2017, 25, 31937.	3.4	12
30	All optic-fiber coupled plasmon waveguide resonance sensor using ZrS₂ based dielectric layer. Optics Express, 2020, 28, 11280.	3.4	11
31	Self-Referenced Residual Pressure Measurement Method for Fiber-Optic Pressure Sensor Chip. IEEE Photonics Technology Letters, 2014, 26, 957-960.	2.5	10
32	A Novel Machâ€“Zehnder Interferometric Temperature Sensor Based on a Symmetrical Double-Grooved Structure. IEEE Sensors Journal, 2020, 20, 14850-14856.	4.7	10
33	Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. IEEE Photonics Journal, 2020, 12, 1-9.	2.0	10
34	Birefringence-Dispersion-Induced Frequency Domain Nonlinearity Compensation for Polarized Low-Coherence Interferometry Demodulation. Journal of Lightwave Technology, 2015, 33, 4842-4848.	4.6	9
35	Polarized low-coherence interferometer based on a matrix CCD and birefringence crystal with a two-dimensional angle. Optics Express, 2017, 25, 15977.	3.4	9
36	Low Refractive-Index and Temperature Sensitive Torsion Sensor Based on Cascaded Long-Period Fiber Gratings Inscribed in a Four-Mode Fiber. IEEE Access, 2020, 8, 82266-82272.	4.2	9

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37	Coherent OTDR Using Flexible All-Digital Orthogonal Phase Code Pulse for Distributed Sensing. IEEE Access, 2020, 8, 85395-85400.	4.2	9
38	Real-Time Pressure Measurement Method Based on Rapid Phase Demodulation of Multi-Cavities F-P Sensor. IEEE Sensors Journal, 2021, 21, 26624-26630.	4.7	8
39	Long-Sensing-Length Strain Sensor Based on Optical Fiber Fabry-Perot Interferometer With HCF-SMF Structure. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	7
40	Refractometric Sensitivity Enhancement of Weakly Tilted Fiber Bragg Grating Integrated with Black Phosphorus. Nanomaterials, 2020, 10, 1423.	4.1	7
41	Dual-Frequency CARS Excitation Source With Two Independent-Tunable Stokes Wavelengths Using PM-PCF and Vector Adjustment. Journal of Lightwave Technology, 2020, 38, 2392-2399.	4.6	7
42	Dynamic Phase Extraction in an Ameliorated Distributed Vibration Sensor Using a Highly Stable Homodyne Detection. IEEE Sensors Journal, 2021, 21, 27005-27014.	4.7	7
43	Hierarchical assembly of gold nanorod stripe patterns for sensing and cells alignment. Nanotechnology, 2019, 30, 175302.	2.6	6
44	Study on the Sensitization Effect of Flywheel-Like Diaphragm on Fiber-Optic Fabry-Perot Acoustic Sensor. IEEE Access, 2020, 8, 99286-99293.	4.2	6
45	Rapid and wide-range pressure measurement at high-temperature using an intensity-compensation interrogation method. Optics and Lasers in Engineering, 2022, 157, 107116.	3.8	6
46	Double-Antibody Sandwich Immunoassay and Plasmonic Coupling Synergistically Improved Long-Range SPR Biosensor with Low Detection Limit. Nanomaterials, 2021, 11, 2137.	4.1	5
47	A Fiber-Optic Accelerometer Based on Extrinsic Fabry-Perot Interference for Low Frequency Micro-Vibration Measurement. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	5
48	An Improved Optical Fiber Remote Sensing Method Based on Polarized Low-Coherence Interferometry. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	4
49	Femtosecond Pulse Temporal Overlap Estimation and Adjustment in SSFS-Based CARS System. IEEE Access, 2019, 7, 131317-131325.	4.2	4
50	High-Sensitivity Temperature Sensor Based on Microsphere Cavity in Super Larger Thermo-Optic Coefficient Germanium-core Fiber. IEEE Access, 2019, 7, 182658-182663.	4.2	4
51	Highly Sensitive Temperature Sensor Based on Hollow Microsphere for Ocean Application. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	4
52	Theoretical and Experimental Investigation of an All-Fiber Waveguide Coupled Surface Plasmon Resonance Sensor With Auâ€“ZnOâ€“Au Sandwich Structure. IEEE Access, 2019, 7, 169961-169968.	4.2	4
53	Reflective SFT-FBG Hybrid Micro-Probe for Simultaneous Measurement of Relative Humidity and Temperature. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	4
54	Real-Time Self-Calibrating Phase-Shifted Demodulation Method Based on Polarized Low-Coherence Interference for Optical Fiber Acoustic Sensor. IEEE Sensors Journal, 2022, 22, 8537-8543.	4.7	4

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55	Simultaneous Measurement of Pressure and Temperature Based on Adjustable Line Scanning Polarized Low-Coherence Interferometry With Compensation Plate. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	3
56	Fringe-Distortion-Correction for Polarized Low-Coherence Interferometry With Phosphor-Based LED. Journal of Lightwave Technology, 2019, 37, 3557-3562.	4.6	3
57	Ultrahighâ€Resolution Optical Fiber Thermometer Based on Microcavity Optoâ€Mechanical Oscillation. Advanced Photonics Research, 2022, 3, .	3.6	3
58	Composite wavelength tuning for precision Raman resonance in soliton self-frequency shift-based coherent anti-Stokes Raman scattering. Applied Physics Express, 2020, 13, 092002.	2.4	2
59	Theoretical Investigation of Optical Fiber Waveguide Coupled Surface Plasmon Resonance Sensor with Narrow Full Width at Half-Maximum. , 2021, , .		2
60	Accelerating nonlinear reconstruction in laminar optical tomography by use of recursive SVD inversion. Biomedical Optics Express, 2017, 8, 4275.	2.9	1
61	A Method of HCN Gas Spectrum Denoising and Baseline Removal Used for FBG Interrogation. IEEE Access, 2020, 8, 62706-62713.	4.2	1
62	A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. IEEE Photonics Journal, 2020, 12, 1-11.	2.0	1
63	Mechanical Filter-Based Differential Pressure Fiber-Optic Fabry-Perot Infrasound Sensor. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	1
64	Environment-Robust Polarization-Based Phase-Shift Dynamic Demodulation Method for Optical Fiber Acoustic Sensor. IEEE Photonics Journal, 2022, 14, 1-8.	2.0	1
65	Batch-producible Hybrid Fabry-Perot Fiber-Optic Sensors for Dual-parameters Measurement. , 2019, , .		0
66	The sensitivity enhancement based on the Au & black phosphorus composite film for the surface plasma resonance fiber sensor. , 2021, , .		0