

Dejun Liu

List of Publications by Year in descending order

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103
papers

3,279
citations

147801

31
h-index

161849

54
g-index

103
all docs

103
docs citations

103
times ranked

2421
citing authors

#	ARTICLE	IF	CITATIONS
1	High sensitivity SMS fiber structure based refractometer analysis and experiment. Optics Express, 2011, 19, 7937.	3.4	387
2	High-sensitivity, evanescent field refractometric sensor based on a tapered, multimode fiber interference. Optics Letters, 2011, 36, 2233.	3.3	252
3	Hydrogen sensing and mechanism of M-doped SnO ₂ (M = Cr ³⁺ , Cu ²⁺ and Pd ²⁺) nanocomposite. Sensors and Actuators B: Chemical, 2011, 160, 455-462.	7.8	129
4	Fiber refractometer based on a fiber Bragg grating and single-mode-multimode-single-mode fiber structure. Optics Letters, 2011, 36, 2197.	3.3	125
5	Use of a Bent Single SMS Fiber Structure for Simultaneous Measurement of Displacement and Temperature Sensing. IEEE Photonics Technology Letters, 2011, 23, 130-132.	2.5	94
6	Humidity sensor based on a single-mode hetero-core fiber structure. Optics Letters, 2011, 36, 1752.	3.3	79
7	Gas sensing mechanism and properties of Ce-doped SnO ₂ sensors for volatile organic compounds. Materials Science in Semiconductor Processing, 2012, 15, 438-444.	4.0	78
8	Singlemode-Multimode-Singlemode Fiber Structures for Sensing Applications A Review. IEEE Sensors Journal, 2021, 21, 12734-12751.	4.7	78
9	Agarose coated spherical micro resonator for humidity measurements. Optics Express, 2016, 24, 21216.	3.4	75
10	Plasmonic fiber-optic vector magnetometer. Applied Physics Letters, 2016, 108, .	3.3	74
11	Fiber-tip high-temperature sensor based on multimode interference. Optics Letters, 2013, 38, 4617.	3.3	70
12	High sensitivity refractive index sensor based on a tapered small core single-mode fiber structure. Optics Letters, 2015, 40, 4166.	3.3	70
13	Strain sensor based on a pair of single-mode-multimode-single-mode fiber structures in a ratiometric power measurement scheme. Applied Optics, 2010, 49, 536.	2.1	64
14	Experimental demonstration of a simple displacement sensor based on a bent single-mode-multimode-single-mode fiber structure. Measurement Science and Technology, 2011, 22, 025203.	2.6	59
15	Hollow Core Fiber Based Interferometer for High-Temperature (1000 °C) Measurement. Journal of Lightwave Technology, 2018, 36, 1583-1590.	4.6	59
16	Immunologically modified MnFe ₂ O ₄ nanoparticles to synergize photothermal therapy and immunotherapy for cancer treatment. Chemical Engineering Journal, 2020, 396, 125239.	12.7	59
17	Ultrahigh-sensitivity label-free optical fiber biosensor based on a tapered singlemode- no core-singlemode coupler for Staphylococcus aureus detection. Sensors and Actuators B: Chemical, 2020, 320, 128283.	7.8	58
18	Magnetic field sensor based on a combination of a microfiber coupler covered with magnetic fluid and a Sagnac loop. Scientific Reports, 2017, 7, 4725.	3.3	57

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19	Dual quasibound states in the continuum in compound grating waveguide structures for large positive and negative Goos-Hänchen shifts with perfect reflection. <i>Physical Review A</i> , 2021, 104, .	2.5	51
20	Use of a single-multiple-single-mode fiber filter for interrogating fiber Bragg grating strain sensors with dynamic temperature compensation. <i>Applied Optics</i> , 2009, 48, 5451.	2.1	48
21	Bandwidth-tunable near-infrared perfect absorption of graphene in a compound grating waveguide structure supporting quasi-bound states in the continuum. <i>Optics Express</i> , 2021, 29, 41975.	3.4	48
22	High sensitivity optical fiber sensors for simultaneous measurement of methanol and ethanol. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 1-8.	7.8	45
23	Hydrothermal synthesis of assembled sphere-like WO ₃ architectures and their gas-sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1467-1472.	2.7	42
24	Novel Magnetic Luminescent Janus Nanoparticles for Cell Labeling and Tumor Photothermal Therapy. <i>Small</i> , 2017, 13, 1701129.	10.0	40
25	Sub-micrometer resolution liquid level sensor based on a hollow core fiber structure. <i>Optics Letters</i> , 2019, 44, 2125.	3.3	40
26	Highly Sensitive Twist Sensor Based on Partially Silver Coated Hollow Core Fiber Structure. <i>Journal of Lightwave Technology</i> , 2018, 36, 3672-3677.	4.6	37
27	A comprehensive analysis verified by experiment of a refractometer based on an SMF28 small-core singlemode fiber (SCSMF) SMF28 fiber structure. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 125401.	2.2	35
28	Enhanced Refractometer Based on Periodically Tapered Small Core Singlemode Fiber. <i>IEEE Sensors Journal</i> , 2013, 13, 180-185.	4.7	35
29	Silica Gel Coated Spherical Micro resonator for Ultra-High Sensitivity Detection of Ammonia Gas Concentration in Air. <i>Scientific Reports</i> , 2018, 8, 1620.	3.3	34
30	High Sensitivity Ammonia Gas Sensor Based on a Silica-Gel-Coated Microfiber Coupler. <i>Journal of Lightwave Technology</i> , 2017, 35, 2864-2870.	4.6	33
31	High sensitivity sol-gel silica coated optical fiber sensor for detection of ammonia in water. <i>Optics Express</i> , 2016, 24, 24179.	3.4	32
32	Optical spectral sweep comb liquid flow rate sensor. <i>Optics Letters</i> , 2018, 43, 751.	3.3	31
33	Measurements of milli-Newton surface tension forces with tilted fiber Bragg gratings. <i>Optics Letters</i> , 2018, 43, 255.	3.3	31
34	Ultrasensitive biosensor based on magnetic microspheres enhanced microfiber interferometer. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111563.	10.1	29
35	The use of a bend singlemode multimode singlemode (SMS) fibre structure for vibration sensing. <i>Optics and Laser Technology</i> , 2014, 63, 29-33.	4.6	28
36	A simple optical fiber interferometer based breathing sensor. <i>Measurement Science and Technology</i> , 2017, 28, 035105.	2.6	28

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37	General design approach to multichannel fiber Bragg grating. <i>Journal of Lightwave Technology</i> , 2006, 24, 1571-1580.	4.6	27
38	Single-mode-multimode-single-mode fiber structures for simultaneous measurement of strain and temperature. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 2181-2185.	1.4	27
39	Terahertz high-Q quasi-bound states in the continuum in laser-fabricated metallic double-slit arrays. <i>Optics Express</i> , 2021, 29, 24779.	3.4	27
40	Whispering gallery mode micro resonators for multi-parameter sensing applications. <i>Optics Express</i> , 2018, 26, 31829.	3.4	26
41	Investigation of Humidity and Temperature Response of a Silica Gel Coated Microfiber Coupler. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	2.0	25
42	Performance Improvement of Brillouin Ring Laser Based BOTDR System Employing a Wavelength Diversity Technique. <i>Journal of Lightwave Technology</i> , 2018, 36, 1084-1090.	4.6	25
43	A Packaged Whispering Gallery Mode Strain Sensor Based on a Polymer-Wire Cylindrical Micro Resonator. <i>Journal of Lightwave Technology</i> , 2018, 36, 1757-1765.	4.6	25
44	High temperature performance of an optical microfiber coupler and its potential use as a sensor. <i>Electronics Letters</i> , 2012, 48, 283.	1.0	24
45	Profile control of femtosecond laser-fabricated moth-eye structures on Si substrate. <i>Optics and Lasers in Engineering</i> , 2021, 142, 106584.	3.8	24
46	A Coated Spherical Microresonator for Measurement of Water Vapor Concentration at PPM Levels in Very Low Humidity Environments. <i>Journal of Lightwave Technology</i> , 2018, 36, 2667-2674.	4.6	23
47	Investigation of a Side-Polished Fiber MZI and Its Sensing Performance. <i>IEEE Sensors Journal</i> , 2020, 20, 5909-5914.	4.7	21
48	Novel Microfiber Sensor and Its Biosensing Application for Detection of hCG Based on a Singlemode-Tapered Hollow Core-Singlemode Fiber Structure. <i>IEEE Sensors Journal</i> , 2020, 20, 9071-9078.	4.7	20
49	Miniature Fabry-Perot interferometer based on a movable microsphere reflector. <i>Optics Letters</i> , 2020, 45, 787.	3.3	19
50	Magnetic Field Sensor Based on a Tri-Microfiber Coupler Ring in Magnetic Fluid and a Fiber Bragg Grating. <i>Sensors</i> , 2019, 19, 5100.	3.8	18
51	Enhancing the Visibility of Vernier Effect in a Tri-Microfiber Coupler Fiber Loop Interferometer for Ultrasensitive Refractive Index and Temperature Sensing. <i>Journal of Lightwave Technology</i> , 2021, 39, 1523-1529.	4.6	17
52	Temperature-compensated magnetic field sensing with a dual-ring structure consisting of microfiber coupler-Sagnac loop and fiber Bragg grating-assisted resonant cavity. <i>Applied Optics</i> , 2019, 58, 2334.	1.8	17
53	Degradable mesoporous semimetal antimony nanospheres for near-infrared II multimodal theranostics. <i>Nature Communications</i> , 2022, 13, 539.	12.8	17
54	High Sensitivity Refractometer Based on Reflective Smf-Small Diameter No Core Fiber Structure. <i>Sensors</i> , 2017, 17, 1415.	3.8	16

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55	Microfluidic flow direction and rate vector sensor based on a partially gold-coated TFBG. <i>Optics Letters</i> , 2020, 45, 2776.	3.3	16
56	Simple design technique for a triangular FBG filter based on a linearly chirped grating. <i>Optics Communications</i> , 2010, 283, 985-992.	2.1	15
57	Anti-resonance, inhibited coupling and mode transition in depressed core fibers. <i>Optics Express</i> , 2020, 28, 16526.	3.4	14
58	Ultra-compact in-core-parallel-written FBG and Mach-Zehnder interferometer for simultaneous measurement of strain and temperature. <i>Optics Letters</i> , 2021, 46, 5595.	3.3	14
59	High sensitivity, low temperature-crosstalk strain sensor based on a microsphere embedded Fabry-Perot interferometer. <i>Sensors and Actuators A: Physical</i> , 2020, 310, 112048.	4.1	13
60	Singlemode-Multimode-Singlemode Optical Fiber Sensor for Accurate Blood Pressure Monitoring. <i>Journal of Lightwave Technology</i> , 2022, 40, 4443-4450.	4.6	13
61	High Temperature (Up to 950 Å°C) Sensor Based on Micro Taper In-Line Fiber Mach-Zehnder Interferometer. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2394.	2.5	12
62	Femtosecond real-time probing of the excited-state intramolecular proton transfer reaction in methyl salicylate. <i>Journal of Chemical Physics</i> , 2019, 151, 094302.	3.0	12
63	Discrete Self-Imaging in Small-Core Optical Fiber Interferometers. <i>Journal of Lightwave Technology</i> , 2019, 37, 1873-1884.	4.6	12
64	Packaged inline cascaded optical micro-resonators for multi-parameter sensing. <i>Optical Fiber Technology</i> , 2019, 50, 50-54.	2.7	12
65	Mach-Zehnder Interferometer for High Temperature (1000 Å°C) Sensing Based on a Few-Mode Fiber. <i>Photonic Sensors</i> , 2021, 11, 341-349.	5.0	12
66	Sharp resonances in terahertz free-standing three-dimensional metallic woven meshes. <i>Optics Express</i> , 2020, 28, 30174.	3.4	12
67	Tapered Microfiber MZI Biosensor for Highly Sensitive Detection of <i>Staphylococcus Aureus</i> . <i>IEEE Sensors Journal</i> , 2022, 22, 5531-5539.	4.7	11
68	A study of the effect of the position of an edge filter within a ratiometric wavelength measurement system. <i>Measurement Science and Technology</i> , 2010, 21, 094013.	2.6	10
69	Hydrothermal synthesis and gas sensing properties of different titanate nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 576-581.	2.2	10
70	A simple all-fiber comb filter based on the combined effect of multimode interference and Mach-Zehnder interferometer. <i>Scientific Reports</i> , 2018, 8, 11803.	3.3	10
71	Strain-, curvature- and twist-independent temperature sensor based on a small air core hollow core fiber structure. <i>Optics Express</i> , 2021, 29, 26353.	3.4	10
72	Fiber Ring Laser Based on Side-Polished Fiber MZI for Enhancing Refractive Index and Torsion Measurement. <i>IEEE Sensors Journal</i> , 2022, 22, 7779-7784.	4.7	9

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73	Evanescent field coupling between two parallel close contact SMS fiber structures. Optics Express, 2012, 20, 3098.	3.4	8
74	Optical fiber Fresnel reflection sensor for direct detection of the solid-liquid phase change in n-octadecane. Measurement Science and Technology, 2018, 29, 125107.	2.6	8
75	Negative Curvature Hollow Core Fiber Based All-Fiber Interferometer and Its Sensing Applications to Temperature and Strain. Sensors, 2020, 20, 4763.	3.8	8
76	Integrating Radio-Over-Fiber Communication System and BOTDR Sensor System. Sensors, 2020, 20, 2232.	3.8	8
77	Enhanced refractive index sensor using a combination of a long period fiber grating and a small core singlemode fiber structure. Measurement Science and Technology, 2013, 24, 094002.	2.6	7
78	SNS optical fiber sensor for direct detection of phase transitions in C18H38 n-alkane material. Experimental Thermal and Fluid Science, 2019, 109, 109854.	2.7	7
79	Strain independent twist sensor based on uneven platinum coated hollow core fiber structure. Optics Express, 2019, 27, 19726.	3.4	7
80	Terahertz composite plasmonic slabs based on double-layer metallic gratings. Optics Express, 2020, 28, 18212.	3.4	7
81	Angled fiber-based Fabry-Perot interferometer. Optics Letters, 2020, 45, 292.	3.3	7
82	Light Coupling Between a Singlemode- Multimode-Singlemode (SMS) Fiber Structure and a Long Period Fiber Grating. Journal of Lightwave Technology, 2011, 29, 3683-3688.	4.6	6
83	High sensitivity liquid level sensor for microfluidic applications using a hollow core fiber structure. Sensors and Actuators A: Physical, 2021, 332, 113134.	4.1	6
84	Optical fibre sensors for monitoring phase transitions in phase changing materials. Smart Materials and Structures, 2018, 27, 105021.	3.5	5
85	Air pressure measurement of circular thin plate using optical fiber multimode interferometer. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109784.	5.0	5
86	Comparative Study on Sensing Properties of Fiber-Coupled Microbottle Resonators With Polymer Materials. IEEE Sensors Journal, 2021, 21, 26681-26689.	4.7	5
87	Study of the effect of source signal bandwidth on ratiometric wavelength measurement. Applied Optics, 2010, 49, 5626.	2.1	4
88	Detection of volatile organic compounds using an optical fiber sensor coated with a sol-gel silica layer containing immobilized Nile red. Proceedings of SPIE, 2017, , .	0.8	4
89	Microdisk Resonator With Negative Thermal Optical Coefficient Polymer for Refractive Index Sensing With Thermal Stability. IEEE Photonics Journal, 2018, 10, 1-12.	2.0	4
90	Light transmission mechanisms in a SMF-capillary fiber-SMF structure and its application to bi-directional liquid level measurement. Optics Express, 2022, 30, 21876.	3.4	4

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91	High sensitivity and fast response optical fiber nucleic acid sensor. Optics and Laser Technology, 2022, 154, 108271.	4.6	4
92	Slit Beam Shaping for Femtosecond Laser Point-by-Point Inscription of Highly Localized Fiber Bragg Grating. Journal of Lightwave Technology, 2022, 40, 5722-5728.	4.6	4
93	Simultaneous measurement of both magnetic field strength and temperature with a microfiber coupler based fiber laser sensor. Proceedings of SPIE, 2017, , .	0.8	3
94	Optical fiber fabry-perot sensor based on a singlemode-hollow core-singlemode fiber structure for direct detection of phase transition in n-octadecane. Measurement: Journal of the International Measurement Confederation, 2021, 184, 110002.	5.0	3
95	Tapered Side-Polished Microfibre Sensor for High Sensitivity hCG Detection. IEEE Sensors Journal, 2022, 22, 7727-7733.	4.7	3
96	Compact relative humidity sensor based on an Agarose hydrogel coated silica microsphere resonator. , 2017, , .		1
97	Achieving High Transmission and Q Bragg Filter via Balancing Dissipation and Radiation Loss. IEEE Photonics Journal, 2021, 13, 1-5.	2.0	1
98	Terahertz membrane sensing based on terahertz composite slabs with enhanced fields. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	1
99	Investigation on stress/strain sensing characteristics for magnetorheological smart composite material by a SMS fiber structure. , 2015, , .		0
100	Sol-gel silica coated optical fiber sensor for ammonia gas detection. , 2016, , .		0
101	Singlemode-multimode-singlemode fibre structure for phase transition monitoring in phase changing materials (invited paper). Journal of Physics: Conference Series, 2018, 1065, 252024.	0.4	0
102	Investigation of quasi-bound states in the continuum in terahertz metal complementary periodic cross-shaped resonators. , 2021, , .		0
103	Single-Polarization Hollow-Core Negative Curvature Fiber for Temperature Sensing. , 2021, , .		0