

A Ping Zhang

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90
papers

2,902
citations

31
h-index

52
g-index

117
ext. papers

3,442
ext. citations

4.4
avg, IF

5.12
L-index

#	Paper	IF	Citations
90	Rapid fabrication of complex 3D extracellular microenvironments by dynamic optical projection stereolithography. <i>Advanced Materials</i> , 2012 , 24, 4266-70	24	251
89	Hierarchically structured nanoporous poly(ionic liquid) membranes: facile preparation and application in fiber-optic pH sensing. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5549-52	16.4	175
88	Fiber-taper seeded long-period grating pair as a highly sensitive refractive-index sensor. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 1247-1249	2.2	155
87	Digital microfabrication of user-defined 3D microstructures in cell-laden hydrogels. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 3038-47	4.9	144
86	Rapid 3D Patterning of Poly(acrylic acid) Ionic Hydrogel for Miniature pH Sensors. <i>Advanced Materials</i> , 2016 , 28, 1394-9	24	116
85	Low-cost high-performance fiber-optic pH sensor based on thin-core fiber modal interferometer. <i>Optics Express</i> , 2009 , 17, 22296-302	3.3	111
84	Optical fiber relative humidity sensor based on FBG incorporated thin-core fiber modal interferometer. <i>Optics Express</i> , 2011 , 19, 4140-6	3.3	92
83	Compact microfiber Bragg gratings with high-index contrast. <i>Optics Letters</i> , 2011 , 36, 3115-7	3	92
82	All-optical fiber anemometer based on laser heated fiber Bragg gratings. <i>Optics Express</i> , 2011 , 19, 10124-30	3.3	91
81	Fiber-Optic High-Temperature Sensor Based on Thin-Core Fiber Modal Interferometer. <i>IEEE Sensors Journal</i> , 2010 , 10, 1415-1418	4	84
80	Fiber-optic refractive-index sensors based on transmissive and reflective thin-core fiber modal interferometers. <i>Optics Communications</i> , 2010 , 283, 2136-2139	2	80
79	Sandwiched long-period gratings for simultaneous measurement of refractive index and temperature. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2397-2399	2.2	77
78	High-Resolution Strain and Temperature Sensor Based on Distributed Bragg Reflector Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1598-1600	2.2	68
77	In-line open-cavity Fabry-Pérot interferometer formed by C-shaped fiber forttemperature-insensitive refractive index sensing. <i>Optics Express</i> , 2014 , 22, 21757-66	3.3	64
76	Micropatterned elastic ionic polyacrylamide hydrogel for low-voltage capacitive and organic thin-film transistor pressure sensors. <i>Nano Energy</i> , 2019 , 58, 96-104	17.1	64
75	Implementation and Characterization of Liquid-Level Sensor Based on a Long-Period Fiber Grating Mach-Zehnder Interferometer. <i>IEEE Sensors Journal</i> , 2011 , 11, 2878-2882	4	58
74	Optical fiber LPG biosensor integrated microfluidic chip for ultrasensitive glucose detection. <i>Biomedical Optics Express</i> , 2016 , 7, 2067-77	3.5	54

73	Simultaneous Measurement of Refractive Index and Temperature by Using Dual Long-Period Gratings With an Etching Process. <i>IEEE Sensors Journal</i> , 2007 , 7, 1360-1361	4	52
72	Optical Refractive-Index Sensor Based on Dual Fiber-Bragg Gratings Interposed With a Multimode-Fiber Taper. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 30-32	2.2	48
71	Experimental and theoretical analysis of fiber Bragg gratings under lateral compression. <i>Optics Communications</i> , 2002 , 206, 81-87	2	44
70	Highly sensitive and fast responsive fiber-optic modal interferometric pH sensor based on polyelectrolyte complex and polyelectrolyte self-assembled nanocoating. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 3623-31	4.4	41
69	Fabrication of a compact reflective long-period grating sensor with a cladding-mode-selective fiber end-face mirror. <i>Optics Express</i> , 2009 , 17, 17976-82	3.3	40
68	Solution-Processed Bilayer Dielectrics for Flexible Low-Voltage Organic Field-Effect Transistors in Pressure-Sensing Applications. <i>Advanced Science</i> , 2018 , 5, 1701041	13.6	39
67	Micropatterned Elastic Gold-Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800051	6.8	37
66	In situ 3D-printed optical fiber-tip CO ₂ sensor using a photocrosslinkable poly(ionic liquid). <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 833-839	8.5	36
65	Advances in optical fiber Bragg grating sensor technologies. <i>Photonic Sensors</i> , 2012 , 2, 1-13	2.3	36
64	Nonlinear fiber-optic strain sensor based on four-wave mixing in microstructured optical fiber. <i>Optics Letters</i> , 2012 , 37, 794-6	3	36
63	Cladding-mode-assisted recouplings in concatenated long-period and fiber Bragg gratings. <i>Optics Letters</i> , 2002 , 27, 1214-6	3	34
62	Integrated microfluidic flowmeter based on a micro-FBG inscribed in Co ²⁺ -doped optical fiber. <i>Optics Letters</i> , 2014 , 39, 5877-80	3	33
61	Ultrafast Light-Controlled Growth of Silver Nanoparticles for Direct Plasmonic Color Printing. <i>ACS Nano</i> , 2018 , 12, 9913-9921	16.7	31
60	Label-free, disposable fiber-optic biosensors for DNA hybridization detection. <i>Analyst, The</i> , 2013 , 138, 1988-94	5	31
59	Cladding-Mode-Recoupling-Based Tilted Fiber Bragg Grating Sensor With a Core-Diameter-Mismatched Fiber Section. <i>IEEE Photonics Journal</i> , 2010 , 2, 152-157	1.8	30
58	Fiber-Optic Acetylene Gas Sensor Based on Microstructured Optical Fiber Bragg Gratings. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1588-1590	2.2	30
57	High-Frequency Ultrasonic Hydrophone Based on a Cladding-Etched DBR Fiber Laser. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 548-550	2.2	30
56	In-line microfluidic integration of photonic crystal fibres as a highly sensitive refractometer. <i>Analyst, The</i> , 2014 , 139, 5422-9	5	29

55	Biocompatible Fiber-Optic pH Sensor Based on Optical Fiber Modal Interferometer Self-Assembled With Sodium Alginate/Polyethylenimine Coating. <i>IEEE Sensors Journal</i> , 2012 , 12, 1477-1482	4	28
54	Widely tunable mode-locked fiber laser using carbon nanotube and LPG W-shaped filter. <i>Optics Letters</i> , 2015 , 40, 4329-32	3	26
53	Microfluidic refractive-index sensors based on small-hole microstructured optical fiber Bragg gratings. <i>Applied Physics Letters</i> , 2011 , 98, 221109	3.4	26
52	Rapid 3D μ -printing of polymer optical whispering-gallery mode resonators. <i>Optics Express</i> , 2015 , 23, 29708-14	3.3	24
51	A novel fast response fiber-optic pH sensor based on nanoporous self-assembled multilayer films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7754		24
50	Optical Fiber-Tip Fabry-Pérot Interferometric Pressure Sensor Based on an In Situ μ Printed Air Cavity. <i>Journal of Lightwave Technology</i> , 2018 , 36, 3618-3623	4	22
49	Fiber-optic metal ion sensor based on thin-core fiber modal interferometer with nanocoating self-assembled via hydrogen bonding. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1174-1179	8.5	20
48	Fiber-Optic Anemometer Based on Bragg Grating Inscribed in Metal-Filled Microstructured Optical Fiber. <i>Journal of Lightwave Technology</i> , 2016 , 34, 4884-4889	4	19
47	Optical Fiber-Tip Sensors Based on In-Situ μ -Printed Polymer Suspended-Microbeams. <i>Sensors</i> , 2018 , 18,	3.8	17
46	Highly sensitive and selective fiber-optic modal interferometric sensor for detecting trace mercury ion in aqueous solution. <i>Analytical Methods</i> , 2012 , 4, 1292	3.2	17
45	Step-changed long-period fiber gratings. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 657-659	2.2	16
44	Ultrasensitive optofluidic enzyme-linked immunosorbent assay by on-chip integrated polymer whispering-gallery-mode microlaser sensors. <i>Lab on A Chip</i> , 2020 , 20, 2438-2446	7.2	14
43	3D μ printing of polytetrafluoroethylene microstructures: A route to superhydrophobic surfaces and devices. <i>Applied Materials Today</i> , 2020 , 19, 100580	6.6	13
42	Optical μ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , 2017 , 7, 8880	4.9	13
41	Optically Heated Long-Period Grating as Temperature-Insensitive Fiber-Optic Refractive-Index Sensor. <i>IEEE Photonics Journal</i> , 2012 , 4, 2340-2345	1.8	13
40	Mode couplings in superstructure fiber Bragg gratings. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 489-491		13
39	Fiber Bragg Grating Anemometer With Reduced Pump Power-Dependency. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 2450-2453	2.2	11
38	Ultracompact optical fiber acoustic sensors based on a fiber-top spirally-suspended optomechanical microresonator. <i>Optics Letters</i> , 2020 , 45, 3516-3519	3	11

37	Optimization and fabrication of stitched long-period gratings for gain flattening of ultrawide-band EDFAs. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 2559-2561	2.2	10
36	Effects of doping concentrations on the regeneration of Bragg gratings in hydrogen loaded optical fibers. <i>Optics Communications</i> , 2011 , 284, 2808-2811	2	8
35	Low-coherence interrogation scheme for multiplexed sensors based on long-period-grating Mach-Zehnder interferometers. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 832-834	2.2	8
34	Optical low-coherence reflectometry based on long-period grating Mach-Zehnder interferometers. <i>Applied Optics</i> , 2006 , 45, 5733-9	1.7	8
33	Tunable scalar solitons from a polarization-maintaining mode-locked fiber laser using carbon nanotube and chirped fiber Bragg grating. <i>Optics Express</i> , 2016 , 24, 22387-22394	3.3	8
32	Optically 3-D μ -Printed Ferrule-Top Polymer Suspended-Mirror Devices. <i>IEEE Sensors Journal</i> , 2017 , 17, 7257-7261	4	7
31	On-chip microfabrication of thermally controllable PNIPAAm microvalves by using optical maskless stereolithography. <i>Sensors and Actuators A: Physical</i> , 2016 , 247, 397-402	3.9	7
30	Optofluidic tunable mode-locked fiber laser using a long-period grating integrated microfluidic chip. <i>Optics Letters</i> , 2017 , 42, 1117-1120	3	6
29	Double-layer fabrication scheme for large-area polymeric photonic crystal membrane on silicon surface by multibeam interference lithography. <i>Optics Letters</i> , 2008 , 33, 1303-5	3	6
28	Mode recoupling in a novel Bragg grating pair. <i>Optics Letters</i> , 2003 , 28, 519-21	3	6
27	Rapid optical μ printing of polymer top-lensed microlens array. <i>Optics Express</i> , 2019 , 27, 18376-18382	3.3	6
26	Multifocus Structures of Ultrashort Self-Focusing Laser Beam Observed in a Three-Photon Fluorescent Medium. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 816-824	2	5
25	Fabrication of submicron structures in nanoparticle/polymer composite by holographic lithography and reactive ion etching. <i>Applied Physics Letters</i> , 2008 , 93, 203509	3.4	5
24	Optimization of step-changed long-period gratings for gain-flattening of EDFAs. <i>IEEE Photonics Technology Letters</i> , 2005 , 17, 121-123	2.2	5
23	Wearable Sensors: Micropatterned Elastic Gold-Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors (Adv. Mater. Technol. 7/2018). <i>Advanced Materials Technologies</i> , 2018 , 3, 1870029	6.8	4
22	Fiber Bragg Grating Based Wireless Sensor Module With Modulated Radio-Frequency Signal. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 358-360	2.6	4
21	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 095011	2	4
20	All-solid birefringent hybrid photonic crystal fiber based interferometric sensor for measurement of strain and temperature 2011 ,		3

19	Wavelength Detection of Coherence-Multiplexed Fiber-Optic Sensors Based on Long-Period Grating Pairs. <i>IEEE Sensors Journal</i> , 2007 , 7, 36-37	4	3
18	Selective excitation and coupling of high-order optical modes of a microstructured optical fiber by using a fiber-end microtip. <i>Optics Letters</i> , 2011 , 36, 4074-6	3	2
17	Core mode scatterer and fibre end-face mirror incorporated reflective long-period grating sensors. <i>Electronics Letters</i> , 2010 , 46, 710	1.1	2
16	Label-free DNA biosensor based on cladding-etched thin-core fiber modal interferometer 2012 ,		2
15	Prediction of Polarisation Behaviour of Twisted Optical Fibres Containing Bragg Grating Sensors. <i>Journal of the Textile Institute</i> , 2000 , 91, 105-116	1.5	2
14	Optical 3D Printing of polytetrafluoroethylene (PTFE) microstructures 2018 ,		2
13	Fiber optic anemometer based on metal infiltrated microstructured optical fiber inscribed with Bragg grating 2015 ,		1
12	In-line photonic crystal fiber optofluidic refractometer 2014 ,		1
11	Novel fiber Bragg grating sensing scheme based on radio-frequency signal measurement 2009 ,		1
10	Coherence multiplexing of sensors based on long-period fibre grating Mach-Zehnder interferometers. <i>Proceedings of SPIE</i> , 2006 , 6351, 558	1.7	1
9	Investigation of a cladding-etched thin-core fiber modal interferometer and its application for refractive index sensing 2012 ,		1
8	Optical 3D Printing of Polymer Whispering-Gallery-Mode Microcavity Lasers 2018 ,		1
7	Fiber-Optic Catalytic Hydrogen Sensor Based on Thin-core Fiber Modal Interferometer 2012 ,		1
6	Bi-Directional Brillouin Optical Time Domain Analyzer System for Long Range Distributed Sensing. <i>Sensors</i> , 2016 , 16,	3.8	1
5	Optical 3D Printing of ferrule-top polymer suspended-mirror devices 2016 ,		1
4	3D Printed Polymer Whispering-Gallery-Mode Microcavity Laser Sensor Array 2019 ,		1
3	Direct Printing of Micropatterned Plasmonic Substrates of Size-Controlled Gold Nanoparticles by Precision Photoreduction. <i>Advanced Optical Materials</i> , 2021 , 9, 2001368	8.1	1
2	Experimental characterization of the spectra of etched long-period grating pairs 2005 , 6019, 757		0

- 1 Fabrication of Polymer Optical Waveguides by Digital Ultraviolet Lithography. *Journal of Lightwave Technology*, **2022**, 40, 163-169 4 ○