

# A Ping Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Fabrication of Polymer Optical Waveguides by Digital Ultraviolet Lithography. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 40, 163-169	4	0
89	Direct Printing of Micropatterned Plasmonic Substrates of Size-Controlled Gold Nanoparticles by Precision Photoreduction. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001368	8.1	1
88	Ultrasensitive optofluidic enzyme-linked immunosorbent assay by on-chip integrated polymer whispering-gallery-mode microlaser sensors. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2438-2446	7.2	14
87	3D Printing of polytetrafluoroethylene microstructures: A route to superhydrophobic surfaces and devices. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100580	6.6	13
86	Ultracompact optical fiber acoustic sensors based on a fiber-top spirally-suspended optomechanical microresonator. <i>Optics Letters</i> , <b>2020</b> , 45, 3516-3519	3	11
85	Rapid optical printing of polymer top-lensed microlens array. <i>Optics Express</i> , <b>2019</b> , 27, 18376-18382	3.3	6
84	3D Printed Polymer Whispering-Gallery-Mode Microcavity Laser Sensor Array <b>2019</b> ,		1
83	Micropatterned elastic ionic polyacrylamide hydrogel for low-voltage capacitive and organic thin-film transistor pressure sensors. <i>Nano Energy</i> , <b>2019</b> , 58, 96-104	17.1	64
82	In situ printed optical fiber-tip CO <sub>2</sub> sensor using a photocrosslinkable poly(ionic liquid). <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 259, 833-839	8.5	36
81	Optical Fiber-Tip Sensors Based on In-Situ $\mu$ -Printed Polymer Suspended-Microbeams. <i>Sensors</i> , <b>2018</b> , 18,	3.8	17
80	Optical Fiber-Tip Fabry-Pérot Interferometric Pressure Sensor Based on an In Situ Printed Air Cavity. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 3618-3623	4	22
79	Solution-Processed Bilayer Dielectrics for Flexible Low-Voltage Organic Field-Effect Transistors in Pressure-Sensing Applications. <i>Advanced Science</i> , <b>2018</b> , 5, 1701041	13.6	39
78	Wearable Sensors: Micropatterned Elastic Gold-Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors (Adv. Mater. Technol. 7/2018). <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1870029	6.8	4
77	Ultrafast Light-Controlled Growth of Silver Nanoparticles for Direct Plasmonic Color Printing. <i>ACS Nano</i> , <b>2018</b> , 12, 9913-9921	16.7	31
76	Micropatterned Elastic Gold-Nanowire/Polyacrylamide Composite Hydrogels for Wearable Pressure Sensors. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800051	6.8	37
75	Optical 3D Printing of Polymer Whispering-Gallery-Mode Microcavity Lasers <b>2018</b> ,		1
74	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , <b>2018</b> , 28, 095011	2	4

73	Optical 3D Printing of polytetrafluoroethylene (PTFE) microstructures <b>2018</b> ,		2
72	Optical $\mu$ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , <b>2017</b> , 7, 8880	4.9	13
71	Optically 3-D $\mu$ -Printed Ferrule-Top Polymer Suspended-Mirror Devices. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 7257-7261	4	7
70	Optofluidic tunable mode-locked fiber laser using a long-period grating integrated microfluidic chip. <i>Optics Letters</i> , <b>2017</b> , 42, 1117-1120	3	6
69	Bi-Directional Brillouin Optical Time Domain Analyzer System for Long Range Distributed Sensing. <i>Sensors</i> , <b>2016</b> , 16,	3.8	1
68	Tunable scalar solitons from a polarization-maintaining mode-locked fiber laser using carbon nanotube and chirped fiber Bragg grating. <i>Optics Express</i> , <b>2016</b> , 24, 22387-22394	3.3	8
67	Rapid 3D Patterning of Poly(acrylic acid) Ionic Hydrogel for Miniature pH Sensors. <i>Advanced Materials</i> , <b>2016</b> , 28, 1394-9	24	116
66	Optical 3D Printing of ferrule-top polymer suspended-mirror devices <b>2016</b> ,		1
65	Optical fiber LPG biosensor integrated microfluidic chip for ultrasensitive glucose detection. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 2067-77	3.5	54
64	On-chip microfabrication of thermally controllable PNIPAAm microvalves by using optical maskless stereolithography. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 247, 397-402	3.9	7
63	Fiber-Optic Anemometer Based on Bragg Grating Inscribed in Metal-Filled Microstructured Optical Fiber. <i>Journal of Lightwave Technology</i> , <b>2016</b> , 34, 4884-4889	4	19
62	Widely tunable mode-locked fiber laser using carbon nanotube and LPG W-shaped filter. <i>Optics Letters</i> , <b>2015</b> , 40, 4329-32	3	26
61	Fiber optic anemometer based on metal infiltrated microstructured optical fiber inscribed with Bragg grating <b>2015</b> ,		1
60	Rapid 3D $\mu$ -printing of polymer optical whispering-gallery mode resonators. <i>Optics Express</i> , <b>2015</b> , 23, 29708-14	3.3	24
59	In-line microfluidic integration of photonic crystal fibres as a highly sensitive refractometer. <i>Analyst, The</i> , <b>2014</b> , 139, 5422-9	5	29
58	Integrated microfluidic flowmeter based on a micro-FBG inscribed in $\text{Co}^{2+}$ -doped optical fiber. <i>Optics Letters</i> , <b>2014</b> , 39, 5877-80	3	33
57	In-line open-cavity Fabry-Pérot interferometer formed by C-shaped fiber for temperature-insensitive refractive index sensing. <i>Optics Express</i> , <b>2014</b> , 22, 21757-66	3.3	64
56	In-line photonic crystal fiber optofluidic refractometer <b>2014</b> ,		1

55	Fiber Bragg Grating Anemometer With Reduced Pump Power-Dependency. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 2450-2453	2.2	11
54	Hierarchically structured nanoporous poly(ionic liquid) membranes: facile preparation and application in fiber-optic pH sensing. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5549-52	16.4	175
53	Label-free, disposable fiber-optic biosensors for DNA hybridization detection. <i>Analyst, The</i> , <b>2013</b> , 138, 1988-94	5	31
52	Digital microfabrication of user-defined 3D microstructures in cell-laden hydrogels. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 3038-47	4.9	144
51	Advances in optical fiber Bragg grating sensor technologies. <i>Photonic Sensors</i> , <b>2012</b> , 2, 1-13	2.3	36
50	Optically Heated Long-Period Grating as Temperature-Insensitive Fiber-Optic Refractive-Index Sensor. <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 2340-2345	1.8	13
49	Highly sensitive and selective fiber-optic modal interferometric sensor for detecting trace mercury ion in aqueous solution. <i>Analytical Methods</i> , <b>2012</b> , 4, 1292	3.2	17
48	Biocompatible Fiber-Optic pH Sensor Based on Optical Fiber Modal Interferometer Self-Assembled With Sodium Alginate/Polyethylenimine Coating. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1477-1482	4	28
47	Rapid fabrication of complex 3D extracellular microenvironments by dynamic optical projection stereolithography. <i>Advanced Materials</i> , <b>2012</b> , 24, 4266-70	24	251
46	Nonlinear fiber-optic strain sensor based on four-wave mixing in microstructured optical fiber. <i>Optics Letters</i> , <b>2012</b> , 37, 794-6	3	36
45	Label-free DNA biosensor based on cladding-etched thin-core fiber modal interferometer <b>2012</b> ,		2
44	Investigation of a cladding-etched thin-core fiber modal interferometer and its application for refractive index sensing <b>2012</b> ,		1
43	Fiber-Optic Catalytic Hydrogen Sensor Based on Thin-core Fiber Modal Interferometer <b>2012</b> ,		1
42	Optical fiber relative humidity sensor based on FBG incorporated thin-core fiber modal interferometer. <i>Optics Express</i> , <b>2011</b> , 19, 4140-6	3.3	92
41	All-optical fiber anemometer based on laser heated fiber Bragg gratings. <i>Optics Express</i> , <b>2011</b> , 19, 10124-30	3.3	91
40	Compact microfiber Bragg gratings with high-index contrast. <i>Optics Letters</i> , <b>2011</b> , 36, 3115-7	3	92
39	Selective excitation and coupling of high-order optical modes of a microstructured optical fiber by using a fiber-end microtip. <i>Optics Letters</i> , <b>2011</b> , 36, 4074-6	3	2
38	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> , <b>2011</b> , 160, 1174-1179	8.5	20

37	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> , <b>2011</b> , 399, 3623-31	4.4	41
36	Effects of doping concentrations on the regeneration of Bragg gratings in hydrogen loaded optical fibers. <i>Optics Communications</i> , <b>2011</b> , 284, 2808-2811	2	8
35	Fiber-Optic Acetylene Gas Sensor Based on Microstructured Optical Fiber Bragg Gratings. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1588-1590	2.2	30
34	Implementation and Characterization of Liquid-Level Sensor Based on a Long-Period Fiber Grating Mach-Zehnder Interferometer. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 2878-2882	4	58
33	All-solid birefringent hybrid photonic crystal fiber based interferometric sensor for measurement of strain and temperature <b>2011</b> ,		3
32	Microfluidic refractive-index sensors based on small-hole microstructured optical fiber Bragg gratings. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 221109	3.4	26
31	Core mode scatterer and fibre end-face mirror incorporated reflective long-period grating sensors. <i>Electronics Letters</i> , <b>2010</b> , 46, 710	1.1	2
30	Fiber-Optic High-Temperature Sensor Based on Thin-Core Fiber Modal Interferometer. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 1415-1418	4	84
29	Cladding-Mode-Recoupling-Based Tilted Fiber Bragg Grating Sensor With a Core-Diameter-Mismatched Fiber Section. <i>IEEE Photonics Journal</i> , <b>2010</b> , 2, 152-157	1.8	30
28	Fiber Bragg Grating Based Wireless Sensor Module With Modulated Radio-Frequency Signal. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 358-360	2.6	4
27	A novel fast response fiber-optic pH sensor based on nanoporous self-assembled multilayer films. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7754		24
26	Fiber-optic refractive-index sensors based on transmissive and reflective thin-core fiber modal interferometers. <i>Optics Communications</i> , <b>2010</b> , 283, 2136-2139	2	80
25	Novel fiber Bragg grating sensing scheme based on radio-frequency signal measurement <b>2009</b> ,		1
24	Fabrication of a compact reflective long-period grating sensor with a cladding-mode-selective fiber end-face mirror. <i>Optics Express</i> , <b>2009</b> , 17, 17976-82	3.3	40
23	Low-cost high-performance fiber-optic pH sensor based on thin-core fiber modal interferometer. <i>Optics Express</i> , <b>2009</b> , 17, 22296-302	3.3	111
22	Multifocus Structures of Ultrashort Self-Focusing Laser Beam Observed in a Three-Photon Fluorescent Medium. <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 816-824	2	5
21	Fabrication of submicron structures in nanoparticle/polymer composite by holographic lithography and reactive ion etching. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 203509	3.4	5
20	High-Frequency Ultrasonic Hydrophone Based on a Cladding-Etched DBR Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 548-550	2.2	30

19	Double-layer fabrication scheme for large-area polymeric photonic crystal membrane on silicon surface by multibeam interference lithography. <i>Optics Letters</i> , <b>2008</b> , 33, 1303-5	3	6
18	Simultaneous Measurement of Refractive Index and Temperature by Using Dual Long-Period Gratings With an Etching Process. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 1360-1361	4	52
17	Optical Refractive-Index Sensor Based on Dual Fiber-Bragg Gratings Interposed With a Multimode-Fiber Taper. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 30-32	2.2	48
16	High-Resolution Strain and Temperature Sensor Based on Distributed Bragg Reflector Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1598-1600	2.2	68
15	Wavelength Detection of Coherence-Multiplexed Fiber-Optic Sensors Based on Long-Period Grating Pairs. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 36-37	4	3
14	Coherence multiplexing of sensors based on long-period fibre grating Mach-Zehnder interferometers. <i>Proceedings of SPIE</i> , <b>2006</b> , 6351, 558	1.7	1
13	Low-coherence interrogation scheme for multiplexed sensors based on long-period-grating Mach-Zehnder interferometers. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 832-834	2.2	8
12	Optical low-coherence reflectometry based on long-period grating Mach-Zehnder interferometers. <i>Applied Optics</i> , <b>2006</b> , 45, 5733-9	1.7	8
11	Optimization of step-changed long-period gratings for gain-flattening of EDFAs. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 121-123	2.2	5
10	Fiber-taper seeded long-period grating pair as a highly sensitive refractive-index sensor. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1247-1249	2.2	155
9	Optimization and fabrication of stitched long-period gratings for gain flattening of ultrawide-band EDFAs. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2559-2561	2.2	10
8	Sandwiched long-period gratings for simultaneous measurement of refractive index and temperature. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2397-2399	2.2	77
7	Experimental characterization of the spectra of etched long-period grating pairs <b>2005</b> , 6019, 757		0
6	Mode recoupling in a novel Bragg grating pair. <i>Optics Letters</i> , <b>2003</b> , 28, 519-21	3	6
5	Experimental and theoretical analysis of fiber Bragg gratings under lateral compression. <i>Optics Communications</i> , <b>2002</b> , 206, 81-87	2	44
4	Cladding-mode-assisted recouplings in concatenated long-period and fiber Bragg gratings. <i>Optics Letters</i> , <b>2002</b> , 27, 1214-6	3	34
3	Mode couplings in superstructure fiber Bragg gratings. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 489-491		13
2	Step-changed long-period fiber gratings. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 657-659	2.2	16

- 1 Prediction of Polarisation Behaviour of Twisted Optical Fibres Containing Bragg Grating Sensors. *Journal of the Textile Institute*, **2000**, 91, 105-116 1.5 2