

Lei 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.

61
papers

2,671
citations

25
h-index

51
g-index

69
ext. papers

3,123
ext. citations

7.4
avg, IF

5.15
L-index

#	Paper	IF	Citations
61	Optical fibre taper-enabled waveguide photoactuators.. <i>Nature Communications</i> , 2022 , 13, 363	17.4	5
60	Optimizing Evanescent Efficiency of Chalcogenide Tapered Fiber. <i>Materials</i> , 2022 , 15, 3834	3.5	
59	Highly Sensitive Humidity Sensors Based on Pt Functionalized ZIF-67 Towards Noncontact Healthcare Monitoring. <i>IEEE Sensors Journal</i> , 2021 , 21, 25616-25623	4	0
58	Electrical double layer-based iontronic sensor for detection of electrolytes concentration. <i>Chinese Journal of Analytical Chemistry</i> , 2021 , 50, 13-13	1.6	0
57	Finger-Skin-Inspired Flexible Optical Sensor for Force Sensing and Slip Detection in Robotic Grasping. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100285	6.8	5
56	A Flexible Capacitive 3D Tactile Sensor With Cross-Shaped Capacitor Plate Pair and Composite Structure Dielectric. <i>IEEE Sensors Journal</i> , 2021 , 21, 1378-1385	4	14
55	Optical Micro/Nanofiber-Enabled Compact Tactile Sensor for Hardness Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4560-4566	9.5	7
54	Optical micro/nanofiber embedded soft film enables multifunctional flow sensing in microfluidic chips. <i>Lab on A Chip</i> , 2020 , 20, 2572-2579	7.2	10
53	Micro-/Nanofiber Optics: Merging Photonics and Material Science on Nanoscale for Advanced Sensing Technology. <i>iScience</i> , 2020 , 23, 100810	6.1	39
52	Flexible Liquid-Filled Fiber Adapter Enabled Wearable Optical Sensors. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000079	6.8	8
51	Mid-infrared microfiber Bragg gratings. <i>Optics Letters</i> , 2020 , 45, 6114-6117	3	3
50	Ultrasensitive skin-like wearable optical sensors based on glass micro/nanofibers. <i>Opto-Electronic Advances</i> , 2020 , 3, 19002201-19002207	6.5	33
49	Bio-inspired flow rate sensor based on optical microfiber embedded soft film. <i>Optics Express</i> , 2020 , 28, 21359-21367	3.3	0
48	A multifunctional skin-like wearable optical sensor based on an optical micro-/nanofibre. <i>Nanoscale</i> , 2020 , 12, 17538-17544	7.7	22
47	Ultra-Long Subwavelength Micro/Nanofibers With Low Loss. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 1069-1072	2.2	3
46	A new route for fabricating polymer optical microcavities. <i>Nanoscale</i> , 2019 , 11, 5203-5208	7.7	13
45	Coiled Optical Nanofiber for Optofluidic Absorbance Detection. <i>ACS Sensors</i> , 2019 , 4, 2267-2271	9.2	12

44	Functional Film Coated Optical Micro/Nanofibers for High-Performance Gas Sensing. <i>IEEE Sensors Journal</i> , 2019 , 1-1	4	8
43	Micro-/Nano-optical Fiber Microfluidic Sensors 2019 , 2319-2350		
42	Micro-/Nano-Optical Fiber Microfluidic Sensors 2018 , 1-32		
41	A Droplet-Reactor System Capable of Automation for the Continuous and Scalable Production of Noble-Metal Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 3879-3884	11.5	38
40	Metaparticles: Dressing Nano-Objects with a Hyperbolic Coating. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800179	8.3	21
39	Accurate real-time sensing tip for aqueous NO with optical fibers embedded in active hydrogel waveguide. <i>AIP Advances</i> , 2018 , 8, 025207	1.5	2
38	One-Pot Synthesis of Penta-twinned Palladium Nanowires and Their Enhanced Electrocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31203-31212	9.5	50
37	A tactile sensor for measuring hardness of soft tissue with applications to minimally invasive surgery. <i>Sensors and Actuators A: Physical</i> , 2017 , 266, 197-204	3.9	22
36	Optofluidic refractive index sensor based on partial reflection. <i>Photonic Sensors</i> , 2017 , 7, 97-104	2.3	3
35	Protein-based Y-junction optical micro-splitters with environment-stimulus-actuated adjustments. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 571-576	8.5	5
34	Flexible and Adhesive Surface Enhance Raman Scattering Active Tape for Rapid Detection of Pesticide Residues in Fruits and Vegetables. <i>Analytical Chemistry</i> , 2016 , 88, 2149-55	7.8	277
33	Ultra-sensitive nanofiber fluorescence detection in a microfluidic chip. <i>Sensors</i> , 2015 , 15, 4890-8	3.8	29
32	Customization of Protein Single Nanowires for Optical Biosensing. <i>Small</i> , 2015 , 11, 2869-76	11	23
31	In situ fabrication of a tunable microlens. <i>Optics Letters</i> , 2015 , 40, 3850-3	3	4
30	Single-Band 2-nm-Line-Width Plasmon Resonance in a Strongly Coupled Au Nanorod. <i>Nano Letters</i> , 2015 , 15, 7581-6	11.5	49
29	Femtoliter-scale optical nanofiber sensors. <i>Optics Express</i> , 2015 , 23, 28408-15	3.3	17
28	Five-Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. <i>ChemNanoMat</i> , 2015 , 1, 246-252	3.5	25
27	Atomic layer-by-layer deposition of platinum on palladium octahedra for enhanced catalysts toward the oxygen reduction reaction. <i>ACS Nano</i> , 2015 , 9, 2635-47	16.7	180

26	Scaling up the production of colloidal nanocrystals: should we increase or decrease the reaction volume?. <i>Advanced Materials</i> , 2014 , 26, 2600-6	24	85
25	Unique excavated rhombic dodecahedral PtCu ₃ alloy nanocrystals constructed with ultrathin nanosheets of high-energy {110} facets. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3748-51	16.4	207
24	Polyol syntheses of palladium decahedra and icosahedra as pure samples by maneuvering the reaction kinetics with additives. <i>ACS Nano</i> , 2014 , 8, 7041-50	16.7	82
23	Synthesis of colloidal metal nanocrystals in droplet reactors: the pros and cons of interfacial adsorption. <i>Nano Letters</i> , 2014 , 14, 4189-94	11.5	54
22	Continuous and scalable production of well-controlled noble-metal nanocrystals in milliliter-sized droplet reactors. <i>Nano Letters</i> , 2014 , 14, 6626-31	11.5	97
21	Droplet-based microreactors for continuous production of palladium nanocrystals with controlled sizes and shapes. <i>Small</i> , 2013 , 9, 3462-7	11	65
20	Transformation of Pd nanocubes into octahedra with controlled sizes by maneuvering the rates of etching and regrowth. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11752-5	16.4	99
19	Seed-mediated synthesis of silver nanocrystals with controlled sizes and shapes in droplet microreactors separated by air. <i>Langmuir</i> , 2013 , 29, 15719-25	4	44
18	Electron-beam-activated light-emitting polymer nanofibers. <i>Optics Letters</i> , 2013 , 38, 1040-2	3	10
17	Gold nanorod-facilitated localized heating of droplets in microfluidic chips. <i>Optics Express</i> , 2013 , 21, 12813-6	3.6	13
16	Polymer nanofibers embedded with aligned gold nanorods: a new platform for plasmonic studies and optical sensing. <i>Nano Letters</i> , 2012 , 12, 3145-50	11.5	149
15	Polymer microfiber rings for high-sensitivity optical humidity sensing. <i>Applied Optics</i> , 2011 , 50, G7-G10	0.2	43
14	Ultra-sensitive microfibre absorption detection in a microfluidic chip. <i>Lab on A Chip</i> , 2011 , 11, 3720-4	7.2	51
13	Micro/nanofiber optical sensors. <i>Photonic Sensors</i> , 2011 , 1, 31-42	2.3	56
12	Quantum-dot-doped polymer nanofibers for optical sensing. <i>Advanced Materials</i> , 2011 , 23, 3770-4	24	114
11	Large defect-induced sub-bandgap photoresponse in semiconductor nanowires via waveguiding excitation. <i>Nanotechnology</i> , 2011 , 22, 425201	3.4	10
10	Fusion Spliced Microfiber Closed-Loop Resonators. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1075-1077	7.7	16
9	Fast detection of humidity with a subwavelength-diameter fiber taper coated with gelatin film. <i>Optics Express</i> , 2008 , 16, 13349-53	3.3	126

8	Polymer single-nanowire optical sensors. <i>Nano Letters</i> , 2008 , 8, 2757-61	11.5	268
7	Rapid and variable-volume sample loading in sieving electrophoresis microchips using negative pressure combined with electrokinetic force. <i>Lab on A Chip</i> , 2008 , 8, 1137-44	7.2	17
6	Simple and cost-effective fabrication of two-dimensional plastic nanochannels from silica nanowire templates. <i>Microfluidics and Nanofluidics</i> , 2008 , 5, 727-732	2.8	36
5	Parallel separation of multiple samples with negative pressure sample injection on a 3-D microfluidic array chip. <i>Electrophoresis</i> , 2007 , 28, 1281-8	3.6	15
4	Negative pressure pinched sample injection for microchip-based electrophoresis. <i>Lab on A Chip</i> , 2006 , 6, 258-64	7.2	52
3	Field amplified sample stacking coupled with chip-based capillary electrophoresis using negative pressure sample injection technique. <i>Journal of Chromatography A</i> , 2006 , 1137, 243-8	4.5	19
2	Shape-Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics. <i>Advanced Functional Materials</i> , 2104088	15.6	8
1	A Multifunctional Airflow Sensor Enabled by Optical Micro/nanofiber. <i>Advanced Fiber Materials</i> , 1	10.9	3