

Lei Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2790345/lei-zhang-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
60	Polymer single-nanowire optical sensors. <i>Nano Letters</i> , 2008 , 8, 2757-61	11.5	268
59	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
58	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
57	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
56	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
55	Quantum-dot-doped polymer nanofibers for optical sensing. <i>Advanced Materials</i> , 2011 , 23, 3770-4	24	114
54	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
53	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
52	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
51	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
50	Droplet-based microreactors for continuous production of palladium nanocrystals with controlled sizes and shapes. <i>Small</i> , 2013 , 9, 3462-7	11	65
49	Micro/nanofiber optical sensors. <i>Photonic Sensors</i> , 2011 , 1, 31-42	2.3	56
48	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
47	Negative pressure pinched sample injection for microchip-based electrophoresis. <i>Lab on A Chip</i> , 2006 , 6, 258-64	7.2	52
46	Ultra-sensitive microfibre absorption detection in a microfluidic chip. <i>Lab on A Chip</i> , 2011 , 11, 3720-4	7.2	51
45	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

44	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
43	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
42	Polymer microfiber rings for high-sensitivity optical humidity sensing. <i>Applied Optics</i> , 2011 , 50, G7-G10	0.2	43
41	Micro-/Nanofiber Optics: Merging Photonics and Material Science on Nanoscale for Advanced Sensing Technology. <i>IScience</i> , 2020 , 23, 100810	6.1	39
40	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
39	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
38	Ultrasensitive skin-like wearable optical sensors based on glass micro/nanofibers. <i>Opto-Electronic Advances</i> , 2020 , 3, 19002201-19002207	6.5	33
37	Ultra-sensitive nanofiber fluorescence detection in a microfluidic chip. <i>Sensors</i> , 2015 , 15, 4890-8	3.8	29
36	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
35	Customization of Protein Single Nanowires for Optical Biosensing. <i>Small</i> , 2015 , 11, 2869-76	11	23
34	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
33	A multifunctional skin-like wearable optical sensor based on an optical micro-/nanofibre. <i>Nanoscale</i> , 2020 , 12, 17538-17544	7.7	22
32	Metaparticles: Dressing Nano-Objects with a Hyperbolic Coating. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1800179	8.3	21
31	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
30	Femtoliter-scale optical nanofiber sensors. <i>Optics Express</i> , 2015 , 23, 28408-15	3.3	17
29	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
28	Fusion Spliced Microfiber Closed-Loop Resonators. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1075-1077	17	16
27	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

26	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
25	A new route for fabricating polymer optical microcavities. <i>Nanoscale</i> , 2019 , 11, 5203-5208	7.7	13
24	Gold nanorod-facilitated localized heating of droplets in microfluidic chips. <i>Optics Express</i> , 2013 , 21, 12813-6	3.9	13
23	Coiled Optical Nanofiber for Optofluidic Absorbance Detection. <i>ACS Sensors</i> , 2019 , 4, 2267-2271	9.2	12
22	Optical micro/nanofibre embedded soft film enables multifunctional flow sensing in microfluidic chips. <i>Lab on A Chip</i> , 2020 , 20, 2572-2579	7.2	10
21	Electron-beam-activated light-emitting polymer nanofibers. <i>Optics Letters</i> , 2013 , 38, 1040-2	3	10
20	Large defect-induced sub-bandgap photoresponse in semiconductor nanowires via waveguiding excitation. <i>Nanotechnology</i> , 2011 , 22, 425201	3.4	10
19	Flexible Liquid-Filled Fiber Adapter Enabled Wearable Optical Sensors. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000079	6.8	8
18	Functional Film Coated Optical Micro/Nanofibers for High-Performance Gas Sensing. <i>IEEE Sensors Journal</i> , 2019 , 1-1	4	8
17	Shape-Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics. <i>Advanced Functional Materials</i> , 2104088	15.6	8
16	Optical Micro/Nanofiber-Enabled Compact Tactile Sensor for Hardness Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4560-4566	9.5	7
15	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
14	Optical fibre taper-enabled waveguide photoactuators.. <i>Nature Communications</i> , 2022 , 13, 363	17.4	5
13	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
12	In situ fabrication of a tunable microlens. <i>Optics Letters</i> , 2015 , 40, 3850-3	3	4
11	Optofluidic refractive index sensor based on partial reflection. <i>Photonic Sensors</i> , 2017 , 7, 97-104	2.3	3
10	Mid-infrared microfiber Bragg gratings. <i>Optics Letters</i> , 2020 , 45, 6114-6117	3	3
9	Ultra-Long Subwavelength Micro/Nanofibers With Low Loss. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 1069-1072	2.2	3

8	A Multifunctional Airflow Sensor Enabled by Optical Micro/nanofiber. <i>Advanced Fiber Materials</i> , 1	10.9	3
7	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
6	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
5	Bio-inspired flow rate sensor based on optical microfiber embedded soft film. <i>Optics Express</i> , 2020 , 28, 21359-21367	3.3	0
4	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
3	Micro-/Nano-Optical Fiber Microfluidic Sensors 2018 , 1-32		
2	Micro-/Nano-optical Fiber Microfluidic Sensors 2019 , 2319-2350		
1	Optimizing Evanescent Efficiency of Chalcogenide Tapered Fiber. <i>Materials</i> , 2022 , 15, 3834	3.5	