

# Zhenyu Li

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,910  
citations

304743

22  
h-index

302126

39  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single mode optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 696.	3.4	335
2	A multi-color fast-switching microfluidic droplet dye laser. Lab on A Chip, 2009, 9, 2767.	6.0	177
3	Optofluidic dye lasers. Microfluidics and Nanofluidics, 2008, 4, 145-158.	2.2	143
4	Mechanically tunable optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 10494.	3.4	128
5	Development of a Cloud-Based Epidermal MoSe <sub>2</sub> Device for Hazardous Gas Sensing. Advanced Functional Materials, 2019, 29, 1900138.	14.9	102
6	Flexible packaging of solid-state integrated circuit chips with elastomeric microfluidics. Scientific Reports, 2013, 3, .	3.3	83
7	Effects of Al doping on SnO <sub>2</sub> nanofibers in hydrogen sensor. Sensors and Actuators B: Chemical, 2011, 160, 858-863.	7.8	76
8	Optofluidic evanescent dye laser based on a distributed feedback circular grating. Applied Physics Letters, 2009, 94, 161110.	3.3	66
9	Low-order distributed feedback optofluidic dye laser with reduced threshold. Applied Physics Letters, 2009, 94, .	3.3	56
10	Antibody Quantum Dot Conjugates Developed via Copper-Free Click Chemistry for Rapid Analysis of Biological Samples Using a Microfluidic Microsphere Array System. Bioconjugate Chemistry, 2014, 25, 1272-1281.	3.6	55
11	A smartphone controlled handheld microfluidic liquid handling system. Lab on A Chip, 2014, 14, 4085-4092.	6.0	54
12	Interactions of Staphylococcus aureus with ultrasoft hydrogel biomaterials. Biomaterials, 2016, 95, 74-85.	11.4	53
13	Medical devices on chips. Nature Biomedical Engineering, 2017, 1, .	22.5	53
14	Fabrication and visible-light photocatalytic behavior of perovskite praseodymium ferrite porous nanotubes. Journal of Power Sources, 2015, 285, 178-184.	7.8	50
15	Nanoimprinted circular grating distributed feedback dye laser. Applied Physics Letters, 2007, 91, .	3.3	47
16	Rapid and sensitive ethanol sensor based on hollow Au/V <sub>2</sub> O <sub>5</sub> nanotubes via emulsion-electrospinning route. Materials Research Bulletin, 2015, 65, 157-162.	5.2	37
17	A wearable IoT aldehyde sensor for pediatric asthma research and management. Sensors and Actuators B: Chemical, 2019, 287, 584-594.	7.8	33
18	Finite element simulations of hydrodynamic trapping in microfluidic particle-trap array systems. Biomicrofluidics, 2013, 7, 54108.	2.4	32

#	ARTICLE	IF	CITATIONS
19	Optofluidic Distributed Feedback Dye Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 185-193.	2.9	30
20	Highly sensitive SnO <sub>2</sub> nanofiber chemiresistors with a low optimal operating temperature: synergistic effect of Cu <sup>2+</sup> /Au co-doping. Journal of Materials Chemistry A, 2014, 2, 13655-13660.	10.3	29
21	Optimization of microfluidic microsphere-trap arrays. Biomicrofluidics, 2013, 7, 14112.	2.4	28
22	Multiparametric slice culture platform for the investigation of human cardiac tissue physiology. Progress in Biophysics and Molecular Biology, 2019, 144, 139-150.	2.9	28
23	Microfluidics-enabled 96-well perfusion system for high-throughput tissue engineering and long-term all-optical electrophysiology. Lab on A Chip, 2020, 20, 4031-4042.	6.0	22
24	The Effect of Fluorescent Labels on Protein Sorption in Polymer Hydrogels. Journal of Fluorescence, 2014, 24, 1639-1650.	2.5	20
25	Streamline based design guideline for deterministic microfluidic hydrodynamic single cell traps. Biomicrofluidics, 2015, 9, 024103.	2.4	19
26	A contact-lens-on-a-chip companion diagnostic tool for personalized medicine. Lab on A Chip, 2016, 16, 1152-1156.	6.0	18
27	A Discreet Wearable IoT Sensor for Continuous Transdermal Alcohol Monitoring—Challenges and Opportunities. IEEE Sensors Journal, 2021, 21, 5322-5330.	4.7	18
28	Optofluidic circular grating distributed feedback dye laser. Applied Physics Letters, 2009, 95, 031109.	3.3	15
29	A Cloud-Connected NO <sub>2</sub> and Ozone Sensor System for Personalized Pediatric Asthma Research and Management. IEEE Sensors Journal, 2020, 20, 15143-15153.	4.7	13
30	Tethered-bead, immune sandwich assay. Biosensors and Bioelectronics, 2015, 63, 117-123.	10.1	11
31	A Cloud-Connected Multi-Lead Electrocardiogram (ECG) Sensor Ring. IEEE Sensors Journal, 2021, 21, 16340-16349.	4.7	11
32	Simultaneous detection of multiple biological targets using optimized microfluidic microsphere-trap arrays. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 1.	0.9	10
33	The effects of non-ionic polymeric surfactants on the cleaning of biofouled hydrogel materials. Biofouling, 2015, 31, 689-697.	2.2	9
34	Optofluidic Microring Dye Laser. LEOS Summer Topical Meeting, 2007, , .	0.0	7
35	An Artificial Intelligent Flexible Gas Sensor Based on Ultra-Large Area MoSe <sub>2</sub> Nanosheet. , 2019, , .		7
36	Microfluidic microsphere-trap arrays for simultaneous detection of multiple targets. Proceedings of SPIE, 2013, , .	0.8	6

#	ARTICLE	IF	CITATIONS
37	Personal NO <sub>2</sub> sensor demonstrates feasibility of in-home exposure measurements for pediatric asthma research and management. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2022, 32, 312-319.	3.9	6
38	Hemoglobin assay for validation and quality control of medical device reprocessing. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6885-6889.	3.7	5
39	Rectangular cmos differential MAGFET biosensor for magnetic particle detection. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4052-4055.	2.1	3
40	On-chip optofluidic grating spectrograph for biomedical applications. , 2013, , .		3
41	Wearable and Stationary Point-of-Care IoT Air Pollution Sensors for Pediatric Asthma Research and Management. , 2019, , .		3
42	Point-of-care early HIV diagnosis system on the CMOS & microfluidic hybrid platform. , 2012, , .		2
43	Sensors: Development of a Cloud-Based Epidermal MoSe <sub>2</sub> Device for Hazardous Gas Sensing ( <i>Adv. Funct. Mater.</i> 18/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970122.	14.9	2
44	Optofluidic Grating Spectrograph on a Chip. , 2009, , .		2
45	Tunable optofluidic distributed feedback dye lasers. , 2006, , .		1
46	Optofluidic coupled micro-ring resonators for biosensing. , 2012, , .		1
47	Optofluidic Resonators and Sensors. , 2015, , 1-6.		1
48	Diffraction from Arbitrarily Deformed Volume Holograms. , 0, , .		0
49	Optofluidic distributed feedback dye laser. , 2006, , .		0
50	Mechanically Tunable Optofluidic Distributed Feedback Dye Laser. , 0, , .		0
51	Optical bio sensor using graphene nano ribbons. , 2011, , .		0
52	Optofluidic Resonators and Sensors. , 2016, , 3090-3095.		0