

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	Personal NO ₂ 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
2	A Discreet Wearable IoT Sensor for Continuous Transdermal Alcohol Monitoring—Challenges and Opportunities. <i>IEEE Sensors Journal</i> , 2021, 21, 5322-5330.	4.7	18
3	A Cloud-Connected Multi-Lead Electrocardiogram (ECG) Sensor Ring. <i>IEEE Sensors Journal</i> , 2021, 21, 16340-16349.	4.7	11
4	A Cloud-Connected NO ₂ and Ozone Sensor System for Personalized Pediatric Asthma Research and Management. <i>IEEE Sensors Journal</i> , 2020, 20, 15143-15153.	4.7	13
5	Microfluidics-enabled 96-well perfusion system for high-throughput tissue engineering and long-term all-optical electrophysiology. <i>Lab on A Chip</i> , 2020, 20, 4031-4042.	6.0	22
6	Multiparametric slice culture platform for the investigation of human cardiac tissue physiology. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 144, 139-150.	2.9	28
7	An Artificial Intelligent Flexible Gas Sensor Based on Ultra-Large Area MoSe ₂ Nanosheet. , 2019, , .		7
8	Sensors: Development of a Cloud-Based Epidermal MoSe ₂ Device for Hazardous Gas Sensing (<i>Adv. Funct. Mater.</i> 18/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970122.	14.9	2
9	A wearable IoT aldehyde sensor for pediatric asthma research and management. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 584-594.	7.8	33
10	Development of a Cloud-Based Epidermal MoSe ₂ Device for Hazardous Gas Sensing. <i>Advanced Functional Materials</i> , 2019, 29, 1900138.	14.9	102
11	Wearable and Stationary Point-of-Care IoT Air Pollution Sensors for Pediatric Asthma Research and Management. , 2019, , .		3
12	Medical devices on chips. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	53
13	Interactions of <i>Staphylococcus aureus</i> with ultrasoft hydrogel biomaterials. <i>Biomaterials</i> , 2016, 95, 74-85.	11.4	53
14	A contact-lens-on-a-chip companion diagnostic tool for personalized medicine. <i>Lab on A Chip</i> , 2016, 16, 1152-1156.	6.0	18
15	Optofluidic Resonators and Sensors. , 2016, , 3090-3095.		0
16	Streamline based design guideline for deterministic microfluidic hydrodynamic single cell traps. <i>Biomicrofluidics</i> , 2015, 9, 024103.	2.4	19
17	The effects of non-ionic polymeric surfactants on the cleaning of biofouled hydrogel materials. <i>Biofouling</i> , 2015, 31, 689-697.	2.2	9
18	Rapid and sensitive ethanol sensor based on hollow Au/V ₂ O ₅ nanotubes via emulsion-electrospinning route. <i>Materials Research Bulletin</i> , 2015, 65, 157-162.	5.2	37

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19	Hemoglobin assay for validation and quality control of medical device reprocessing. Analytical and Bioanalytical Chemistry, 2015, 407, 6885-6889.	3.7	5
20	Fabrication and visible-light photocatalytic behavior of perovskite praseodymium ferrite porous nanotubes. Journal of Power Sources, 2015, 285, 178-184.	7.8	50
21	Tethered-bead, immune sandwich assay. Biosensors and Bioelectronics, 2015, 63, 117-123.	10.1	11
22	Optofluidic Resonators and Sensors. , 2015, , 1-6.		1
23	The Effect of Fluorescent Labels on Protein Sorption in Polymer Hydrogels. Journal of Fluorescence, 2014, 24, 1639-1650.	2.5	20
24	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
25	Highly sensitive SnO ₂ nanofiber chemiresistors with a low optimal operating temperature: synergistic effect of Cu ²⁺ /Au co-doping. Journal of Materials Chemistry A, 2014, 2, 13655-13660.	10.3	29
26	A smartphone controlled handheld microfluidic liquid handling system. Lab on A Chip, 2014, 14, 4085-4092.	6.0	54
27	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
28	Finite element simulations of hydrodynamic trapping in microfluidic particle-trap array systems. Biomicrofluidics, 2013, 7, 54108.	2.4	32
29	Rectangular cmos differential MAGFET biosensor for magnetic particle detection. IEEE Transactions on Magnetics, 2013, 49, 4052-4055.	2.1	3
30	Flexible packaging of solid-state integrated circuit chips with elastomeric microfluidics. Scientific Reports, 2013, 3, .	3.3	83
31	On-chip optofluidic grating spectrograph for biomedical applications. , 2013, , .		3
32	Optimization of microfluidic microsphere-trap arrays. Biomicrofluidics, 2013, 7, 14112.	2.4	28
33	Microfluidic microsphere-trap arrays for simultaneous detection of multiple targets. Proceedings of SPIE, 2013, , .	0.8	6
34	Point-of-care early HIV diagnosis system on the CMOS & microfluidic hybrid platform. , 2012, , .		2
35	Optofluidic coupled micro-ring resonators for biosensing. , 2012, , .		1
36	Optical bio sensor using graphene nano ribbons. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Effects of Al doping on SnO ₂ nanofibers in hydrogen sensor. Sensors and Actuators B: Chemical, 2011, 160, 858-863.	7.8	76
38	A multi-color fast-switching microfluidic droplet dye laser. Lab on A Chip, 2009, 9, 2767.	6.0	177
39	Optofluidic circular grating distributed feedback dye laser. Applied Physics Letters, 2009, 95, 031109.	3.3	15
40	Low-order distributed feedback optofluidic dye laser with reduced threshold. Applied Physics Letters, 2009, 94, .	3.3	56
41	Optofluidic evanescent dye laser based on a distributed feedback circular grating. Applied Physics Letters, 2009, 94, 161110.	3.3	66
42	Optofluidic Grating Spectrograph on a Chip. , 2009, , .		2
43	Optofluidic dye lasers. Microfluidics and Nanofluidics, 2008, 4, 145-158.	2.2	143
44	Nanoimprinted circular grating distributed feedback dye laser. Applied Physics Letters, 2007, 91, .	3.3	47
45	Optofluidic Microring Dye Laser. LEOS Summer Topical Meeting, 2007, , .	0.0	7
46	Optofluidic Distributed Feedback Dye Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 185-193.	2.9	30
47	Single mode optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 696.	3.4	335
48	Mechanically tunable optofluidic distributed feedback dye laser. Optics Express, 2006, 14, 10494.	3.4	128
49	Optofluidic distributed feedback dye laser. , 2006, , .		0
50	Tunable optofluidic distributed feedback dye lasers. , 2006, , .		1
51	Diffraction from Arbitrarily Deformed Volume Holograms. , 0, , .		0
52	Mechanically Tunable Optofluidic Distributed Feedback Dye Laser. , 0, , .		0