

# Zheng Li

## List of Publications by Year in descending order

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119  
papers

5,550  
citations

94269

37  
h-index

91712

69  
g-index

121  
all docs

121  
docs citations

121  
times ranked

7867  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. <i>Chemical Reviews</i> , 2019, 119, 231-292.	23.0	718
2	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. <i>Nature Plants</i> , 2018, 4, 460-472.	4.7	391
3	Impact of whole-genome duplication events on diversification rates in angiosperms. <i>American Journal of Botany</i> , 2018, 105, 348-363.	0.8	270
4	N-methyladenine DNA Modification in Glioblastoma. <i>Cell</i> , 2018, 175, 1228-1243.e20.	13.5	236
5	PVDF/Palygorskite Nanowire Composite Electrolyte for 4 V Rechargeable Lithium Batteries with High Energy Density. <i>Nano Letters</i> , 2018, 18, 6113-6120.	4.5	227
6	Non-invasive plant disease diagnostics enabled by smartphone-based fingerprinting of leaf volatiles. <i>Nature Plants</i> , 2019, 5, 856-866.	4.7	191
7	An optoelectronic nose for identification of explosives. <i>Chemical Science</i> , 2016, 7, 199-206.	3.7	138
8	Portable Optoelectronic Nose for Monitoring Meat Freshness. <i>ACS Sensors</i> , 2016, 1, 1330-1335.	4.0	128
9	Colorimetric Recognition of Aldehydes and Ketones. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9860-9863.	7.2	103
10	Energetic, economic and environmental analysis of air source transcritical CO <sub>2</sub> heat pump system for residential heating in China. <i>Applied Thermal Engineering</i> , 2019, 148, 1425-1439.	3.0	98
11	Robotic Glove with Soft-Elastic Composite Actuators for Assisting Activities of Daily Living. <i>Soft Robotics</i> , 2019, 6, 289-304.	4.6	94
12	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. <i>Matter</i> , 2021, 4, 2553-2570.	5.0	93
13	Novel role of miR-133a-3p in repressing gastric cancer growth and metastasis via blocking autophagy-mediated glutaminolysis. <i>Journal of Experimental and Clinical Cancer Research</i> , 2018, 37, 320.	3.5	89
14	Long non-coding RNA's in nucleus pulposus cell function and intervertebral disc degeneration. <i>Cell Proliferation</i> , 2018, 51, e12483.	2.4	87
15	HCP5 is a SMAD3-responsive long non-coding RNA that promotes lung adenocarcinoma metastasis via miR-203/SNAI axis. <i>Theranostics</i> , 2019, 9, 2460-2474.	4.6	85
16	Differentiation among peroxide explosives with an optoelectronic nose. <i>Chemical Communications</i> , 2015, 51, 15312-15315.	2.2	84
17	Aptamer-Based Fluorescent Sensor Array for Multiplexed Detection of Cyanotoxins on a Smartphone. <i>Analytical Chemistry</i> , 2019, 91, 10448-10457.	3.2	83
18	Fabrication of strong internal electric field ZnS/Fe <sub>9</sub> S <sub>10</sub> heterostructures for highly efficient sodium ion storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11771-11781.	5.2	83

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19	Thermally stable, nano-porous and eco-friendly sodium alginate/attapulgite separator for lithium-ion batteries. <i>Energy Storage Materials</i> , 2019, 22, 48-56.	9.5	79
20	Agricultural nanodiagnosics for plant diseases: recent advances and challenges. <i>Nanoscale Advances</i> , 2020, 2, 3083-3094.	2.2	74
21	Colorimetric Sensor Array for Monitoring CO and Ethylene. <i>Analytical Chemistry</i> , 2019, 91, 797-802.	3.2	72
22	A Hand-Held Optoelectronic Nose for the Identification of Liquors. <i>ACS Sensors</i> , 2018, 3, 121-127.	4.0	67
23	Consumption of Sugar-Sweetened Beverages Has a Dose-Dependent Effect on the Risk of Non-Alcoholic Fatty Liver Disease: An Updated Systematic Review and Dose-Response Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2192.	1.2	67
24	The Optoelectronic Nose. <i>Accounts of Chemical Research</i> , 2021, 54, 950-960.	7.6	66
25	Long non-coding RNA in rheumatoid arthritis. <i>Cell Proliferation</i> , 2018, 51, .	2.4	64
26	Autonomous Flexible Endoscope for Minimally Invasive Surgery With Enhanced Safety. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 2607-2613.	3.3	61
27	MIR-1265 regulates cellular proliferation and apoptosis by targeting calcium binding protein 39 in gastric cancer and, thereby, impairing oncogenic autophagy. <i>Cancer Letters</i> , 2019, 449, 226-236.	3.2	60
28	A multi-objective optimization approach for selection of energy storage systems. <i>Computers and Chemical Engineering</i> , 2018, 115, 213-225.	2.0	58
29	In Vitro Modeling of Human Germ Cell Development Using Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2018, 10, 509-523.	2.3	57
30	Ca <sup>2+</sup> signalling plays a role in celastrol-mediated suppression of synovial fibroblasts of rheumatoid arthritis patients and experimental arthritis in rats. <i>British Journal of Pharmacology</i> , 2019, 176, 2922-2944.	2.7	57
31	p53/Lactate dehydrogenase A axis negatively regulates aerobic glycolysis and tumor progression in breast cancer expressing wild-type p53. <i>Cancer Science</i> , 2019, 110, 939-949.	1.7	56
32	Model-based online learning and adaptive control for a human-wearable soft robot-integrated system. <i>International Journal of Robotics Research</i> , 2021, 40, 256-276.	5.8	56
33	Circular-Polarized Substrate-Integrated-Waveguide Leaky-Wave Antenna With Wide-Angle and Consistent-Gain Continuous Beam Scanning. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 4418-4428.	3.1	54
34	Rapid Quantification of Trimethylamine. <i>Analytical Chemistry</i> , 2016, 88, 5615-5620.	3.2	53
35	CsSPL functions as an adaptor between HDZIP and CsWUS transcription factors regulating anther and ovule development in <i>Cucumis sativus</i> (cucumber). <i>Plant Journal</i> , 2018, 94, 535-547.	2.8	49
36	Distributed Compressive Sensing Augmented Wideband Spectrum Sharing for Cognitive IoT. <i>IEEE Internet of Things Journal</i> , 2018, 5, 3234-3245.	5.5	43

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37	Natural variation at <i>OscR1</i> regulates arbuscular mycorrhizal symbiosis in rice. <i>New Phytologist</i> , 2020, 225, 1762-1776.	3.5	43
38	Central Pattern Generator (CPG) Control of a Biomimetic Robot Fish for Multimodal Swimming. <i>Journal of Bionic Engineering</i> , 2019, 16, 222-234.	2.7	42
39	Morphology and kinetic investigation of TBAB/TBPB semiclathrate hydrates formed with a CO <sub>2</sub> +CH <sub>4</sub> gas mixture. <i>Journal of Crystal Growth</i> , 2019, 511, 79-88.	0.7	38
40	Two-stage glucose-assisted crystallization of ZSM-5 to improve methanol to propylene (MTP). <i>Microporous and Mesoporous Materials</i> , 2018, 270, 57-66.	2.2	37
41	Antiviral effects of ferric ammonium citrate. <i>Cell Discovery</i> , 2018, 4, 14.	3.1	35
42	Design, synthesis, and biological evaluation of novel pan agonists of FFA1, PPAR $\beta$ and PPAR $\gamma$ . <i>European Journal of Medicinal Chemistry</i> , 2018, 159, 267-276.	2.6	34
43	Zinc-finger protein YY1 suppresses tumor growth of human nasopharyngeal carcinoma by inactivating c-Myc-mediated microRNA-141 transcription. <i>Journal of Biological Chemistry</i> , 2019, 294, 6172-6187.	1.6	34
44	Surface dealumination of micro-sized ZSM-5 for improving propylene selectivity and catalyst lifetime in methanol to propylene (MTP) reaction. <i>Catalysis Communications</i> , 2018, 109, 1-5.	1.6	32
45	Emerging roles of MicroRNAs in osteonecrosis of the femoral head. <i>Cell Proliferation</i> , 2018, 51, .	2.4	32
46	Proton-Conducting Poly-L-glutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21865-21873.	4.0	32
47	Recombinant human BMP-2 accelerates the migration of bone marrow mesenchymal stem cells via the CDC42/PAK1/LIMK1 pathway <i>in vitro</i> and <i>in vivo</i> . <i>Biomaterials Science</i> , 2019, 7, 362-372.	2.6	32
48	Ultrasensitive Monitoring of Museum Airborne Pollutants Using a Silver Nanoparticle Sensor Array. <i>ACS Sensors</i> , 2020, 5, 2783-2791.	4.0	32
49	Ultrasonic Preparation of Porous Silica-Dye Microspheres: Sensors for Quantification of Urinary Trimethylamine N-Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15820-15828.	4.0	31
50	New Diketopiperazines from a Marine-Derived Fungus Strain <i>Aspergillus versicolor</i> MF180151. <i>Marine Drugs</i> , 2019, 17, 262.	2.2	29
51	Identification of accelerants, fuels and post-combustion residues using a colorimetric sensor array. <i>Analyst</i> , 2015, 140, 5929-5935.	1.7	28
52	Smartphone-based cytometric biosensors for point-of-care cellular diagnostics. <i>Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering</i> , 2020, 3, 32-42.	1.7	28
53	Plasmon-enhanced biosensors for microRNA analysis and cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114041.	5.3	26
54	A Biomimetic Soft Robot for Inspecting Pipeline with Significant Diameter Variation. , 2018, , .		25

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55	The WUSCHEL-related homeobox1 gene of cucumber regulates reproductive organ development. <i>Journal of Experimental Botany</i> , 2018, 69, 5373-5387.	2.4	25
56	Transcranial brain atlas. <i>Science Advances</i> , 2018, 4, eaar6904.	4.7	23
57	A functional polymorphism in <i>TFF1</i> promoter is associated with the risk and prognosis of gastric cancer. <i>International Journal of Cancer</i> , 2018, 142, 1805-1816.	2.3	22
58	A coordinated energy security model taking strategic petroleum reserve and alternative fuels into consideration. <i>Energy</i> , 2018, 145, 171-181.	4.5	21
59	Chemically Induced Sintering of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14193-14196.	7.2	21
60	Visual Servo Control of a Novel Magnetic Actuated Endoscope for Uniportal Video-Assisted Thoracic Surgery. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 3098-3105.	3.3	21
61	The therapeutic potential of GABA in neuron-glia interactions of cancer-induced bone pain. <i>European Journal of Pharmacology</i> , 2019, 858, 172475.	1.7	21
62	Long non-coding RNAs in the spinal cord injury: Novel spotlight. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 4883-4890.	1.6	20
63	Design of a 3D Printed Soft Robotic Hand for Stroke Rehabilitation and Daily Activities Assistance. , 2019, 2019, 65-70.		19
64	Relationship between Structural Characteristics and Plant Sources along with Pharmacology Research of Quassinoids. <i>Chemical and Pharmaceutical Bulletin</i> , 2019, 67, 654-665.	0.6	19
65	A novel de novo <i>CASZ1</i> heterozygous frameshift variant causes dilated cardiomyopathy and left ventricular noncompaction cardiomyopathy. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e828.	0.6	19
66	Twenty Minute Moderate-Intensity Post-Dinner Exercise Reduces the Postprandial Glucose Response in Chinese Patients with Type 2 Diabetes. <i>Medical Science Monitor</i> , 2018, 24, 7170-7177.	0.5	18
67	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Osteogenic Differentiation by Modulating AMPK/ULK1-Dependent Autophagy. <i>Stem Cells</i> , 2019, 37, 1542-1555.	1.4	18
68	Colorimetric Recognition of Aldehydes and Ketones. <i>Angewandte Chemie</i> , 2017, 129, 9992-9995.	1.6	17
69	Enhancement of performance monitoring of a coal-fired power plant via dynamic data reconciliation. <i>Energy</i> , 2018, 151, 203-210.	4.5	16
70	Identification of abnormal fucosylated-glycans recognized by LTL in saliva of HBV-induced chronic hepatitis, cirrhosis, and hepatocellular carcinoma. <i>Glycobiology</i> , 2019, 29, 242-259.	1.3	16
71	Colorimetric sensor arrays: development and application to art conservation. <i>Journal of the American Institute for Conservation</i> , 2018, 57, 127-140.	0.2	15
72	Analysis of Glycosphingolipid Glycans by Lectin Microarrays. <i>Analytical Chemistry</i> , 2019, 91, 10663-10671.	3.2	15

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73	A zwitterionic near-infrared dye linked TrkC targeting agent for imaging metastatic breast cancer. <i>MedChemComm</i> , 2018, 9, 1754-1760.	3.5	14
74	A reversible fluorescent probe for directly monitoring protein-small molecules interaction utilizing vibration-induced emission. <i>Dyes and Pigments</i> , 2019, 163, 425-432.	2.0	14
75	Genome-wide association study identifies loci and candidate genes for non-idiopathic pulmonary hypertension in Eastern Chinese Han population. <i>BMC Pulmonary Medicine</i> , 2018, 18, 158.	0.8	12
76	Characterization of proteins with Sia $\pm$ 2-3/6Gal-linked glycans from bovine milk and role of their glycans against influenza A virus. <i>Food and Function</i> , 2018, 9, 5198-5208.	2.1	12
77	Quantitative contributions of solution atoms, precipitates and deformation to microstructures and properties of Al $\epsilon$ -Sc $\epsilon$ -Zr alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 907-918.	1.7	12
78	Barcoding for diatoms in the Yangtze River from the morphological observation and 18S rDNA polymorphic analysis. <i>Forensic Science International</i> , 2019, 297, 81-89.	1.3	12
79	LncRNA $\epsilon$ SULT1C2A regulates <i>Foxo4</i> in congenital scoliosis by targeting rno $\epsilon$ miR $\epsilon$ 466c $\epsilon$ 5p through PI3K $\epsilon$ ATK signalling. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 4582-4591.	1.6	12
80	Nanoporous Silica-Dye Microspheres for Enhanced Colorimetric Detection of Cyclohexanone. <i>Chemosensors</i> , 2018, 6, 34.	1.8	11
81	MicroRNA signature of air pollution exposure $\epsilon$ induced congenital defects. <i>Journal of Cellular Physiology</i> , 2019, 234, 17896-17904.	2.0	11
82	Melatonin protected against the detrimental effects of microRNA $\epsilon$ 363 in a rat model of vitamin A $\epsilon$ associated congenital spinal deformities: Involvement of Notch signaling. <i>Journal of Pineal Research</i> , 2019, 66, e12558.	3.4	11
83	Lectin microarray and mass spectrometric analysis of hepatitis C proteins reveals N-linked glycosylation. <i>Medicine (United States)</i> , 2018, 97, e0208.	0.4	10
84	DPPH-HPLC-MS assisted rapid identification of endothelial protective substances from Xiao-Ke-An. <i>Journal of Ethnopharmacology</i> , 2018, 211, 188-196.	2.0	10
85	Innovative surgical endoscopes in video-assisted thoracic surgery. <i>Journal of Thoracic Disease</i> , 2018, 10, S749-S755.	0.6	10
86	A Novel Soft Robotic Glove for Daily Life Assistance. , 2018, , .		10
87	Intracellular concentration and transporters in imatinib resistance of gastrointestinal stromal tumor. <i>Scandinavian Journal of Gastroenterology</i> , 2019, 54, 220-226.	0.6	10
88	Twenty-year time trends in hypertension prevalence in Yi people of China: three successive cross-sectional studies, 1996 $\epsilon$ 2015. <i>BMJ Open</i> , 2018, 8, e022714.	0.8	9
89	H1, a derivative of tetrandrine, enhances the efficacy of 5-FU in Bel7402/5-FU cells via suppressing STAT3/MCL-1 and inducing PUMA. <i>Biochemical and Biophysical Research Communications</i> , 2019, 520, 93-98.	1.0	9
90	Nitric oxide donor-based FFA1 agonists: Design, synthesis and biological evaluation as potential anti-diabetic and anti-thrombotic agents. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4560-4566.	1.4	8

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91	Eudesmane-Type Sesquiterpene Glycosides from <i>Dictamnus dasycarpus</i> Turcz.. <i>Molecules</i> , 2018, 23, 642.	1.7	8
92	Investigation of parameters that determine Nano-DC vaccine transport. <i>Biomedical Microdevices</i> , 2019, 21, 39.	1.4	8
93	Bioactive constituents obtained from the fruits of <i>Citrus aurantium</i> . <i>Journal of Natural Medicines</i> , 2019, 73, 146-153.	1.1	8
94	Design and Motion Control of Biomimetic Soft Crawling Robot for GI Tract Inspection. , 2018, , .		7
95	Systematic comparison of methods for determining the in vivo biodistribution of porous nanostructured injectable inorganic particles. <i>Acta Biomaterialia</i> , 2019, 97, 501-512.	4.1	7
96	Chemical Constituents from the Roots of <i>Polygala arillata</i> and Their Anti-Inflammatory Activities. <i>Journal of Chemistry</i> , 2019, 2019, 1-8.	0.9	7
97	Joint energy-efficient resource allocation and transmission duration for cognitive HetNets under imperfect CSI. <i>Signal Processing</i> , 2020, 167, 107309.	2.1	7
98	Coupled Horizontal and Vertical Component Analysis of Strong Ground Motions for Soil-Structure Systems: Application to a Bridge Pier with Soil-Structure Interaction. <i>Journal of Earthquake Engineering</i> , 2021, 25, 2202-2230.	1.4	6
99	Portable Analytical Techniques for Monitoring Volatile Organic Chemicals in Biomanufacturing Processes: Recent Advances and Limitations. <i>Frontiers in Chemistry</i> , 2020, 8, 837.	1.8	6
100	Multiplexed Analysis of Photochemical Oxidants Using a Nanoparticle-Based Optoelectronic Nose. <i>Analytical Chemistry</i> , 2021, 93, 13990-13997.	3.2	6
101	Near infrared spectroscopy based monitoring of extraction processes of raw material with the help of dynamic predictive modeling. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 222-227.	2.0	5
102	Teacher expectations in a university setting: the perspectives of teachers. <i>Educational Research and Evaluation</i> , 2018, 24, 201-220.	0.9	5
103	Influence Factors of Sexual Activity for Internal Migrants in China. <i>Sexual Medicine</i> , 2018, 6, 97-107.	0.9	5
104	The association between high-sensitivity C-reactive protein and blood pressure in Yi people. <i>BMC Public Health</i> , 2019, 19, 991.	1.2	5
105	CORRELATION FOR TURBULENT CONVECTION HEAT TRANSFER IN ELLIPTICAL TUBES BY NUMERICAL SIMULATIONS. <i>Frontiers in Heat and Mass Transfer</i> , 0, 11, .	0.1	5
106	Chemically Induced Sintering of Nanoparticles. <i>Angewandte Chemie</i> , 2019, 131, 14331-14334.	1.6	4
107	Regular alteration of protein glycosylation in skeletal muscles of hibernating Daurian ground squirrels ( <i>Spermophilus dauricus</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 237, 110323.	0.7	4
108	High-Throughput Surface-Enhanced Raman Scattering for Screening Chemical Sensor Candidates Enabled by Bipolar Electrochemistry. <i>ACS Sensors</i> , 2022, 7, 1431-1438.	4.0	4

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109	Hydrophobic and Rapid-Response Sensor Inks: Array-Based Fingerprinting of Perfumes. ACS Applied Materials & Interfaces, 2022, 14, 27339-27346.	4.0	4
110	Robot Path Planning Using an Improved Genetic Algorithm with Ordered Feasible Subpaths. , 2018, , .		3
111	Local infiltration with cocktail analgesics during 2 level lumbar spinal fusion surgery. Medicine (United States), 2019, 98, e15526.	0.4	2
112	Quantifying Cross-provincial Power Transmission Barriers in China, Based on A Computable General Equilibrium Approach. Energy Procedia, 2019, 158, 465-470.	1.8	2
113	Molecular cloning and expression analysis of betaine transporter gene in maize (Zea mays L.). Pakistan Journal of Botany, 2019, 51, .	0.2	2
114	Achieving Position Synchronization in Passive Bilateral Teleoperation. , 2018, , .		1
115	Acoustic Funnel and Buncher for Nanoparticle Injection. Physical Review Applied, 2019, 11, .	1.5	1
116	Editorial: Array-Based Sensing Techniques for Clinical, Agricultural Biotechnology, and Environmental Analysis. Frontiers in Chemistry, 2021, 9, 654707.	1.8	1
117	Implementation of Structural Synchrony and Linear Measures of Brain Network Connectivity for Real-Time State Estimation. , 2018, , .		0
118	Chemical Sensors: Gas Sensors; Optical Sensors. , 2021, , .		0
119	Paracoccus yeei: a Rare Opportunistic Bacterium in a Patient with Parotid Cyst. Clinical Laboratory, 2019, 65, .	0.2	0