

# Zheng Li

## List of Publications by Year in descending order

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119  
papers

5,550  
citations

94433

37  
h-index

88630

70  
g-index

121  
all docs

121  
docs citations

121  
times ranked

7867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmon-enhanced biosensors for microRNA analysis and cancer diagnosis. Biosensors and Bioelectronics, 2022, 203, 114041.	10.1	26
2	High-Throughput Surface-Enhanced Raman Scattering for Screening Chemical Sensor Candidates Enabled by Bipolar Electrochemistry. ACS Sensors, 2022, 7, 1431-1438.	7.8	4
3	Hydrophobic and Rapid-Response Sensor Inks: Array-Based Fingerprinting of Perfumes. ACS Applied Materials & Interfaces, 2022, 14, 27339-27346.	8.0	4
4	Coupled Horizontal and Vertical Component Analysis of Strong Ground Motions for Soilâ€‘Pileâ€‘Superstructure Systems: Application to a Bridge Pier with Soilâ€‘Structure Interaction. Journal of Earthquake Engineering, 2021, 25, 2202-2230.	2.5	6
5	The Optoelectronic Nose. Accounts of Chemical Research, 2021, 54, 950-960.	15.6	66
6	Model-based online learning and adaptive control for a â€‘human-wearable soft robotâ€‘integrated system. International Journal of Robotics Research, 2021, 40, 256-276.	8.5	56
7	Chemical Sensors: Gas Sensors; Optical Sensors. , 2021, , .		0
8	Editorial: Array-Based Sensing Techniques for Clinical, Agricultural Biotechnology, and Environmental Analysis. Frontiers in Chemistry, 2021, 9, 654707.	3.6	1
9	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. Matter, 2021, 4, 2553-2570.	10.0	93
10	Multiplexed Analysis of Photochemical Oxidants Using a Nanoparticle-Based Optoelectronic Nose. Analytical Chemistry, 2021, 93, 13990-13997.	6.5	6
11	Natural variation at <i>OsCERK1</i> regulates arbuscular mycorrhizal symbiosis in rice. New Phytologist, 2020, 225, 1762-1776.	7.3	43
12	Joint energy-efficient resource allocation and transmission duration for cognitive HetNets under imperfect CSI. Signal Processing, 2020, 167, 107309.	3.7	7
13	Smartphone-based cytometric biosensors for point-of-care cellular diagnostics. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2020, 3, 32-42.	3.2	28
14	Agricultural nanodiagnostics for plant diseases: recent advances and challenges. Nanoscale Advances, 2020, 2, 3083-3094.	4.6	74
15	Portable Analytical Techniques for Monitoring Volatile Organic Chemicals in Biomanufacturing Processes: Recent Advances and Limitations. Frontiers in Chemistry, 2020, 8, 837.	3.6	6
16	Ultrasensitive Monitoring of Museum Airborne Pollutants Using a Silver Nanoparticle Sensor Array. ACS Sensors, 2020, 5, 2783-2791.	7.8	32
17	Energetic, economic and environmental analysis of air source transcritical CO2 heat pump system for residential heating in China. Applied Thermal Engineering, 2019, 148, 1425-1439.	6.0	98
18	Systematic comparison of methods for determining the in vivo biodistribution of porous nanostructured injectable inorganic particles. Acta Biomaterialia, 2019, 97, 501-512.	8.3	7

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19	The association between high-sensitivity C-reactive protein and blood pressure in Yi people. BMC Public Health, 2019, 19, 991.	2.9	5
20	Chemically Induced Sintering of Nanoparticles. Angewandte Chemie - International Edition, 2019, 58, 14193-14196.	13.8	21
21	Non-invasive plant disease diagnostics enabled by smartphone-based fingerprinting of leaf volatiles. Nature Plants, 2019, 5, 856-866.	9.3	191
22	Design of a 3D Printed Soft Robotic Hand for Stroke Rehabilitation and Daily Activities Assistance. , 2019, 2019, 65-70.		19
23	Chemically Induced Sintering of Nanoparticles. Angewandte Chemie, 2019, 131, 14331-14334.	2.0	4
24	Analysis of Glycosphingolipid Glycans by Lectin Microarrays. Analytical Chemistry, 2019, 91, 10663-10671.	6.5	15
25	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. International Journal of Environmental Research and Public Health, 2019, 16, 2192.	2.6	67
26	Thermally stable, nano-porous and eco-friendly sodium alginate/attapulgit separator for lithium-ion batteries. Energy Storage Materials, 2019, 22, 48-56.	18.0	79
27	Local infiltration with cocktail analgesics during 2 level lumbar spinal fusion surgery. Medicine (United States), 2019, 98, e15526.	1.0	2
28	Relationship between Structural Characteristics and Plant Sources along with Pharmacology Research of Quassinoids. Chemical and Pharmaceutical Bulletin, 2019, 67, 654-665.	1.3	19
29	A novel de novo <i>CASZ1</i> heterozygous frameshift variant causes dilated cardiomyopathy and left ventricular noncompaction cardiomyopathy. Molecular Genetics & Genomic Medicine, 2019, 7, e828.	1.2	19
30	Visual Servo Control of a Novel Magnetic Actuated Endoscope for Uniportal Video-Assisted Thoracic Surgery. IEEE Robotics and Automation Letters, 2019, 4, 3098-3105.	5.1	21
31	Chemical Constituents from the Roots of <i>Polygala arillata</i> and Their Anti-Inflammatory Activities. Journal of Chemistry, 2019, 2019, 1-8.	1.9	7
32	Quantitative contributions of solution atoms, precipitates and deformation to microstructures and properties of Al-Sc-Zr alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 907-918.	4.2	12
33	Mitochondrial Phosphoenolpyruvate Carboxykinase Regulates Osteogenic Differentiation by Modulating AMPK/ULK1-Dependent Autophagy. Stem Cells, 2019, 37, 1542-1555.	3.2	18
34	Quantifying Cross-provincial Power Transmission Barriers in China, Based on A Computable General Equilibrium Approach. Energy Procedia, 2019, 158, 465-470.	1.8	2
35	H1, a derivative of tetrandrine, enhances the efficacy of 5-FU in Bel7402/5-FU cells via suppressing STAT3/MCL-1 and inducing PUMA. Biochemical and Biophysical Research Communications, 2019, 520, 93-98.	2.1	9
36	Regular alteration of protein glycosylation in skeletal muscles of hibernating Daurian ground squirrels ( <i>Spermophilus dauricus</i> ). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 237, 110323.	1.6	4

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37	Autonomous Flexible Endoscope for Minimally Invasive Surgery With Enhanced Safety. IEEE Robotics and Automation Letters, 2019, 4, 2607-2613.	5.1	61
38	Barcoding for diatoms in the Yangtze River from the morphological observation and 18S rDNA polymorphic analysis. Forensic Science International, 2019, 297, 81-89.	2.2	12
39	Morphology and kinetic investigation of TBAB/TBPB semicathrate hydrates formed with a CO <sub>2</sub> +CH <sub>4</sub> gas mixture. Journal of Crystal Growth, 2019, 511, 79-88.	1.5	38
40	New Diketopiperazines from a Marine-Derived Fungus Strain Aspergillus versicolor MF180151. Marine Drugs, 2019, 17, 262.	4.6	29
41	The therapeutic potential of GABA in neuron-glia interactions of cancer-induced bone pain. European Journal of Pharmacology, 2019, 858, 172475.	3.5	21
42	Proton-Conducting Poly- $\gamma$ -glutamic Acid Nanofiber Embedded Sulfonated Poly(ether sulfone) for Proton Exchange Membranes. ACS Applied Materials & Interfaces, 2019, 11, 21865-21873.	8.0	32
43	Ca <sup>2+</sup> signalling plays a role in celecoxib-mediated suppression of synovial fibroblasts of rheumatoid arthritis patients and experimental arthritis in rats. British Journal of Pharmacology, 2019, 176, 2922-2944.	5.4	57
44	HCP5 is a SMAD3-responsive long non-coding RNA that promotes lung adenocarcinoma metastasis via miR-203/SNAI axis. Theranostics, 2019, 9, 2460-2474.	10.0	85
45	Long non-coding RNAs in the spinal cord injury: Novel spotlight. Journal of Cellular and Molecular Medicine, 2019, 23, 4883-4890.	3.6	20
46	Aptamer-Based Fluorescent Sensor Array for Multiplexed Detection of Cyanotoxins on a Smartphone. Analytical Chemistry, 2019, 91, 10448-10457.	6.5	83
47	Fabrication of strong internal electric field ZnS/Fe <sub>9</sub> S <sub>10</sub> heterostructures for highly efficient sodium ion storage. Journal of Materials Chemistry A, 2019, 7, 11771-11781.	10.3	83
48	LncRNA-SULT1C2A regulates Foxo4 in congenital scoliosis by targeting miR-466c through PI3K-ATK signalling. Journal of Cellular and Molecular Medicine, 2019, 23, 4582-4591.	3.6	12
49	Circular-Polarized Substrate-Integrated-Waveguide Leaky-Wave Antenna With Wide-Angle and Consistent-Gain Continuous Beam Scanning. IEEE Transactions on Antennas and Propagation, 2019, 67, 4418-4428.	5.1	54
50	MicroRNA signature of air pollution exposure-induced congenital defects. Journal of Cellular Physiology, 2019, 234, 17896-17904.	4.1	11
51	Intracellular concentration and transporters in imatinib resistance of gastrointestinal stromal tumor. Scandinavian Journal of Gastroenterology, 2019, 54, 220-226.	1.5	10
52	Robotic Glove with Soft-Elastic Composite Actuators for Assisting Activities of Daily Living. Soft Robotics, 2019, 6, 289-304.	8.0	94
53	Investigation of parameters that determine Nano-DC vaccine transport. Biomedical Microdevices, 2019, 21, 39.	2.8	8
54	Central Pattern Generator (CPG) Control of a Biomimetic Robot Fish for Multimodal Swimming. Journal of Bionic Engineering, 2019, 16, 222-234.	5.0	42

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55	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.	3.9	56
56	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.	7.2	60
57	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.	3.4	34
58	Acoustic Funnel and Buncher for Nanoparticle Injection. <i>Physical Review Applied</i> , 2019, 11, .	3.8	1
59	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. <i>Chemical Reviews</i> , 2019, 119, 231-292.	47.7	718
60	Recombinant human BMP-2 accelerates the migration of bone marrow mesenchymal stem cells via the CDC42/PAK1/LIMK1 pathway in vitro and in vivo. <i>Biomaterials Science</i> , 2019, 7, 362-372.	5.4	32
61	A reversible fluorescent probe for directly monitoring protein-small molecules interaction utilizing vibration-induced emission. <i>Dyes and Pigments</i> , 2019, 163, 425-432.	3.7	14
62	Melatonin protected against the detrimental effects of microRNA-363 in a rat model of vitamin A-associated congenital spinal deformities: Involvement of Notch signaling. <i>Journal of Pineal Research</i> , 2019, 66, e12558.	7.4	11
63	Bioactive constituents obtained from the fruits of <i>Citrus aurantium</i> . <i>Journal of Natural Medicines</i> , 2019, 73, 146-153.	2.3	8
64	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.	2.5	16
65	Colorimetric Sensor Array for Monitoring CO and Ethylene. <i>Analytical Chemistry</i> , 2019, 91, 797-802.	6.5	72
66	Molecular cloning and expression analysis of betaine transporter gene in maize ( <i>Zea mays</i> L.). <i>Pakistan Journal of Botany</i> , 2019, 51, .	0.5	2
67	<i>Paracoccus yeei</i> : a Rare Opportunistic Bacterium in a Patient with Parotid Cyst. <i>Clinical Laboratory</i> , 2019, 65, .	0.5	0
68	CsSPL functions as an adaptor between HDZ and CsZIP-III and CsWUS transcription factors regulating anther and ovule development in <i>Cucumis sativus</i> (cucumber). <i>Plant Journal</i> , 2018, 94, 535-547.	5.7	49
69	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.	8.0	31
70	A multi-objective optimization approach for selection of energy storage systems. <i>Computers and Chemical Engineering</i> , 2018, 115, 213-225.	3.8	58
71	Lectin microarray and mass spectrometric analysis of hepatitis C proteins reveals N-linked glycosylation. <i>Medicine (United States)</i> , 2018, 97, e0208.	1.0	10
72	Antiviral effects of ferric ammonium citrate. <i>Cell Discovery</i> , 2018, 4, 14.	6.7	35

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73	InÂVitro Modeling of Human Germ Cell Development Using Pluripotent Stem Cells. Stem Cell Reports, 2018, 10, 509-523.	4.8	57
74	Surface dealumination of micro-sized ZSM-5 for improving propylene selectivity and catalyst lifetime in methanol to propylene (MTP) reaction. Catalysis Communications, 2018, 109, 1-5.	3.3	32
75	Impact of wholeâ€genome duplication events on diversification rates in angiosperms. American Journal of Botany, 2018, 105, 348-363.	1.7	270
76	Implementation of Structural Synchrony and Linear Measures of Brain Network Connectivity for Real-Time State Estimation. , 2018, , .		0
77	Enhancement of performance monitoring of a coal-fired power plant via dynamic data reconciliation. Energy, 2018, 151, 203-210.	8.8	16
78	DPPH-HPLC-MS assisted rapid identification of endothelial protective substances from Xiao-Ke-An. Journal of Ethnopharmacology, 2018, 211, 188-196.	4.1	10
79	A Hand-Held Optoelectronic Nose for the Identification of Liquors. ACS Sensors, 2018, 3, 121-127.	7.8	67
80	A functional polymorphism in <i>TFF1</i> promoter is associated with the risk and prognosis of gastric cancer. International Journal of Cancer, 2018, 142, 1805-1816.	5.1	22
81	Long nonâ€coding <sc>RNA</sc>s in rheumatoid arthritis. Cell Proliferation, 2018, 51, .	5.3	64
82	A coordinated energy security model taking strategic petroleum reserve and alternative fuels into consideration. Energy, 2018, 145, 171-181.	8.8	21
83	Near infrared spectroscopy based monitoring of extraction processes of raw material with the help of dynamic predictiveÂmodeling. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 222-227.	3.9	5
84	Emerging roles of MicroRNAs in osteonecrosis of the femoral head. Cell Proliferation, 2018, 51, .	5.3	32
85	Innovative surgical endoscopes in video-assisted thoracic surgery. Journal of Thoracic Disease, 2018, 10, S749-S755.	1.4	10
86	Teacher expectations in a university setting: the perspectives of teachers. Educational Research and Evaluation, 2018, 24, 201-220.	1.6	5
87	Design and Motion Control of Biomimetic Soft Crawling Robot for GI Tract Inspection. , 2018, , .		7
88	Robot Path Planning Using an Improved Genetic Algorithm with Ordered Feasible Subpaths. , 2018, , .		3
89	Achieving Position Synchronization in Passive Bilateral Teleoperation. , 2018, , .		1
90	Twenty Minute Moderate-Intensity Post-Dinner Exercise Reduces the Postprandial Glucose Response in Chinese Patients with Type 2 Diabetes. Medical Science Monitor, 2018, 24, 7170-7177.	1.1	18

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91	A Biomimetic Soft Robot for Inspecting Pipeline with Significant Diameter Variation. , 2018, , .		25
92	Novel role of miR-133a-3p in repressing gastric cancer growth and metastasis via blocking autophagy-mediated glutaminolysis. Journal of Experimental and Clinical Cancer Research, 2018, 37, 320.	8.6	89
93	Twenty-year time trends in hypertension prevalence in Yi people of China: three successive cross-sectional studies, 1996â€“2015. BMJ Open, 2018, 8, e022714.	1.9	9
94	Design, synthesis, and biological evaluation of novel pan agonists of FFA1, PPAR $\beta$ and PPAR $\gamma$ . European Journal of Medicinal Chemistry, 2018, 159, 267-276.	5.5	34
95	Genome-wide association study identifies loci and candidate genes for non-idiopathic pulmonary hypertension in Eastern Chinese Han population. BMC Pulmonary Medicine, 2018, 18, 158.	2.0	12
96	N-methyladenine DNA Modification in Glioblastoma. Cell, 2018, 175, 1228-1243.e20.	28.9	236
97	A Novel Soft Robotic Glove for Daily Life Assistance. , 2018, , .		10
98	Transcranial brain atlas. Science Advances, 2018, 4, eaar6904.	10.3	23
99	The WUSCHEL-related homeobox1 gene of cucumber regulates reproductive organ development. Journal of Experimental Botany, 2018, 69, 5373-5387.	4.8	25
100	Nanoporous Silica-Dye Microspheres for Enhanced Colorimetric Detection of Cyclohexanone. Chemosensors, 2018, 6, 34.	3.6	11
101	PVDF/Palygorskite Nanowire Composite Electrolyte for 4 V Rechargeable Lithium Batteries with High Energy Density. Nano Letters, 2018, 18, 6113-6120.	9.1	227
102	Distributed Compressive Sensing Augmented Wideband Spectrum Sharing for Cognitive IoT. IEEE Internet of Things Journal, 2018, 5, 3234-3245.	8.7	43
103	Fern genomes elucidate land plant evolution and cyanobacterial symbioses. Nature Plants, 2018, 4, 460-472.	9.3	391
104	Nitric oxide donor-based FFA1 agonists: Design, synthesis and biological evaluation as potential anti-diabetic and anti-thrombotic agents. Bioorganic and Medicinal Chemistry, 2018, 26, 4560-4566.	3.0	8
105	Long non-coding <sc>RNA</sc>s in nucleus pulposus cell function and intervertebral disc degeneration. Cell Proliferation, 2018, 51, e12483.	5.3	87
106	A zwitterionic near-infrared dye linked TrkC targeting agent for imaging metastatic breast cancer. MedChemComm, 2018, 9, 1754-1760.	3.4	14
107	Eudesmane-Type Sesquiterpene Glycosides from Dictamnus dasycarpus Turcz.. Molecules, 2018, 23, 642.	3.8	8
108	Two-stage glucose-assisted crystallization of ZSM-5 to improve methanol to propylene (MTP). Microporous and Mesoporous Materials, 2018, 270, 57-66.	4.4	37

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109	Influence Factors of Sexual Activity for Internal Migrants in China. Sexual Medicine, 2018, 6, 97-107.	1.6	5
110	Characterization of proteins with Sia±2-3/6Gal-linked glycans from bovine milk and role of their glycans against influenza A virus. Food and Function, 2018, 9, 5198-5208.	4.6	12
111	Colorimetric sensor arrays: development and application to art conservation. Journal of the American Institute for Conservation, 2018, 57, 127-140.	0.5	15
112	Colorimetric Recognition of Aldehydes and Ketones. Angewandte Chemie, 2017, 129, 9992-9995.	2.0	17
113	Colorimetric Recognition of Aldehydes and Ketones. Angewandte Chemie - International Edition, 2017, 56, 9860-9863.	13.8	103
114	Rapid Quantification of Trimethylamine. Analytical Chemistry, 2016, 88, 5615-5620.	6.5	53
115	Portable Optoelectronic Nose for Monitoring Meat Freshness. ACS Sensors, 2016, 1, 1330-1335.	7.8	128
116	An optoelectronic nose for identification of explosives. Chemical Science, 2016, 7, 199-206.	7.4	138
117	Identification of accelerants, fuels and post-combustion residues using a colorimetric sensor array. Analyst, The, 2015, 140, 5929-5935.	3.5	28
118	Differentiation among peroxide explosives with an optoelectronic nose. Chemical Communications, 2015, 51, 15312-15315.	4.1	84
119	CORRELATION FOR TURBULENT CONVECTION HEAT TRANSFER IN ELLIPTICAL TUBES BY NUMERICAL SIMULATIONS. Frontiers in Heat and Mass Transfer, 0, 11, .	0.2	5