

Xiaolei Zhang

List of Publications by Year in descending order

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91
papers

3,463
citations

101543

36
h-index

168389

53
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91
all docs

91
docs citations

91
times ranked

4950
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive SERS performance in 3D "sunflower-like" nanoarrays decorated with Ag nanoparticles. <i>Nanoscale</i> , 2017, 9, 3114-3120.	5.6	118
2	Insecticide resistance monitoring and correlation analysis of insecticides in field populations of the brown planthopper <i>Nilaparvata lugens</i> (stål) in China 2012–2014. <i>Pesticide Biochemistry and Physiology</i> , 2016, 132, 13-20.	3.6	109
3	Physical activity unveils the relationship between mitochondrial energetics, muscle quality, and physical function in older adults. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2018, 9, 279-294.	7.3	105
4	Reference genome of wild goat (<i>capra aegagrus</i>) and sequencing of goat breeds provide insight into genic basis of goat domestication. <i>BMC Genomics</i> , 2015, 16, 431.	2.8	103
5	Ultrasensitive SERS Substrate Integrated with Uniform Subnanometer Scale "Hot Spots" Created by a Graphene Spacer for the Detection of Mercury Ions. <i>Small</i> , 2017, 13, 1603347.	10.0	101
6	A lentiviral sponge for miRNA-21 diminishes aerobic glycolysis in bladder cancer T24 cells via the PTEN/PI3K/AKT/mTOR axis. <i>Tumor Biology</i> , 2015, 36, 383-391.	1.8	97
7	Quorum sensing and quenching in membrane bioreactors: Opportunities and challenges for biofouling control. <i>Bioresource Technology</i> , 2018, 270, 656-668.	9.6	95
8	Understanding the fouling of a ceramic microfiltration membrane caused by algal organic matter released from <i>Microcystis aeruginosa</i> . <i>Journal of Membrane Science</i> , 2013, 447, 362-368.	8.2	84
9	Influence of the characteristics of soluble algal organic matter released from <i>Microcystis aeruginosa</i> on the fouling of a ceramic microfiltration membrane. <i>Journal of Membrane Science</i> , 2013, 425-426, 23-29.	8.2	84
10	Virtual Reality Smart City Based on WebVRGIS. <i>IEEE Internet of Things Journal</i> , 2016, 3, 1015-1024.	8.7	83
11	Disruption of Transcriptionally Active Stat3 Dimers with Non-phosphorylated, Salicylic Acid-Based Small Molecules: Potent in vitro and Tumor Cell Activities. <i>ChemBioChem</i> , 2009, 10, 1959-1964.	2.6	80
12	Simultaneous nitrification and denitrification by EPSs in aerobic granular sludge enhanced nitrogen removal of ammonium-nitrogen-rich wastewater. <i>Bioresource Technology</i> , 2016, 202, 101-106.	9.6	79
13	Phosphorus speciation and bioavailability of sewage sludge derived biochar amended with CaO. <i>Waste Management</i> , 2019, 87, 71-77.	7.4	67
14	Effect of feedwater pre-treatment using UV/H ₂ O ₂ for mitigating the fouling of a ceramic MF membrane caused by soluble algal organic matter. <i>Journal of Membrane Science</i> , 2015, 493, 683-689.	8.2	66
15	The amelioration of cartilage degeneration by ADAMTS-5 inhibitor delivered in a hyaluronic acid hydrogel. <i>Biomaterials</i> , 2014, 35, 2827-2836.	11.4	64
16	The Antarctic Submillimeter Telescope and Remote Observatory (AST/RO). <i>Publications of the Astronomical Society of the Pacific</i> , 2001, 113, 567-585.	3.1	56
17	Assessment of the energy recovery potential of waste Photovoltaic (PV) modules. <i>Scientific Reports</i> , 2019, 9, 5267.	3.3	56
18	Role of STAT3 decoy oligodeoxynucleotides on cell invasion and chemosensitivity in human epithelial ovarian cancer cells. <i>Cancer Genetics and Cytogenetics</i> , 2010, 197, 46-53.	1.0	55

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19	Temporal variability and resistance correlation of sulfoxaflor susceptibility among Chinese populations of the brown planthopper <i>Nilaparvata lugens</i> (Stål). <i>Crop Protection</i> , 2017, 102, 141-146.	2.1	54
20	Surface-enhanced Raman scattering properties of multi-walled carbon nanotubes arrays-Ag nanoparticles. <i>Carbon</i> , 2016, 100, 395-407.	10.3	53
21	The role of detoxifying enzymes in field-evolved resistance to nitenpyram in the brown planthopper <i>Nilaparvata lugens</i> in China. <i>Crop Protection</i> , 2017, 94, 106-114.	2.1	53
22	Characterization of fluorescence foulants on ultrafiltration membrane using front-face excitation-emission matrix (FF-EEM) spectroscopy: Fouling evolution and mechanism analysis. <i>Water Research</i> , 2019, 148, 546-555.	11.3	52
23	BRD4 inhibition attenuates inflammatory response in microglia and facilitates recovery after spinal cord injury in rats. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 3214-3223.	3.6	51
24	Fitness cost of nitenpyram resistance in the brown planthopper <i>Nilaparvata lugens</i> . <i>Journal of Pest Science</i> , 2018, 91, 1145-1151.	3.7	50
25	Core-shell structured quorum quenching beads for more sustainable anti-biofouling in membrane bioreactors. <i>Water Research</i> , 2019, 150, 321-329.	11.3	48
26	CO ($J=4$) and [C _I] Observations of the Carina Molecular Cloud Complex. <i>Astrophysical Journal</i> , 2001, 553, 274-287.	4.5	47
27	Role of the biochar modified with ZnCl ₂ and FeCl ₃ on the electrochemical degradation of nitrobenzene. <i>Chemosphere</i> , 2021, 275, 129966.	8.2	47
28	Surface-enhanced Raman scattering activities of carbon nanotubes decorated with silver nanoparticles. <i>Analyst</i> , 2016, 141, 5527-5534.	3.5	46
29	Sublethal effects of buprofezin on development and reproduction in the white-backed planthopper, <i>Sogatella furcifera</i> (Hemiptera: Delphacidae). <i>Scientific Reports</i> , 2017, 7, 16913.	3.3	45
30	Geographical origin traceability of tea based on multi-element spatial distribution and the relationship with soil in district scale. <i>Food Control</i> , 2018, 90, 18-28.	5.5	44
31	Improved Thermal Stability of Graphene-Veiled Noble Metal Nanoarrays as Recyclable SERS Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40726-40733.	8.0	43
32	Tapered Fiber Probe Modified by Ag Nanoparticles for SERS Detection. <i>Plasmonics</i> , 2016, 11, 743-751.	3.4	42
33	Impact of algal organic matter released from <i>Microcystis aeruginosa</i> and <i>Chlorella</i> sp. on the fouling of a ceramic microfiltration membrane. <i>Water Research</i> , 2016, 103, 391-400.	11.3	42
34	Histone variant H3.3-mediated chromatin remodeling is essential for paternal genome activation in mouse preimplantation embryos. <i>Journal of Biological Chemistry</i> , 2018, 293, 3829-3838.	3.4	42
35	Analysis of multimode POF gratings in stress and strain sensing applications. <i>Optical Fiber Technology</i> , 2011, 17, 201-209.	2.7	41
36	Identification of QTLs for 14 Agronomically Important Traits in <i>Setaria italica</i> Based on SNPs Generated from High-Throughput Sequencing. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1587-1594.	1.8	41

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37	Feedwater coagulation to mitigate the fouling of a ceramic MF membrane caused by soluble algal organic matter. <i>Separation and Purification Technology</i> , 2014, 133, 221-226.	7.9	39
38	Optical properties and surface-enhanced Raman scattering of hybrid structures with Ag nanoparticles and graphene. <i>Carbon</i> , 2016, 102, 245-254.	10.3	39
39	Optimization of fermentative biohydrogen production by response surface methodology using fresh leachate as nutrient supplement. <i>Bioresource Technology</i> , 2011, 102, 8661-8668.	9.6	38
40	A review of the current in-situ fouling control strategies in MBR: Biological versus physicochemical. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 42-59.	5.8	38
41	Identification of Purine-Scaffold Small-Molecule Inhibitors of Stat3 Activation by QSAR Studies. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 79-84.	2.8	37
42	Proliferation and odontogenic differentiation of BMP2 gene-transfected stem cells from human tooth apical papilla: An in vitro study. <i>International Journal of Molecular Medicine</i> , 2014, 34, 1004-1012.	4.0	37
43	Impaired Mitochondrial Energetics Characterize Poor Early Recovery of Muscle Mass Following Hind Limb Unloading in Old Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1313-1322.	3.6	37
44	Loss of mitochondrial energetics is associated with poor recovery of muscle function but not mass following disuse atrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E899-E910.	3.5	34
45	Development of correlation spectroscopy (COS) method for analyzing fluorescence excitation emission matrix (EEM): A case study of effluent organic matter (EfOM) ozonation. <i>Chemosphere</i> , 2019, 228, 35-43.	8.2	33
46	Design, synthesis, and in vitro characterization of novel hybrid peptidomimetic inhibitors of STAT3 protein. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1823-1838.	3.0	32
47	Photolytic quorum quenching: A new anti-biofouling strategy for membrane bioreactors. <i>Chemical Engineering Journal</i> , 2019, 378, 122235.	12.7	31
48	Identification of circular RNA signature in bladder cancer. <i>Journal of Cancer</i> , 2017, 8, 3456-3463.	2.5	30
49	Identifying the reducing capacity of biomass derived hydrochar with different post-treatment methods. <i>Science of the Total Environment</i> , 2018, 643, 486-495.	8.0	30
50	Effect of polysaccharide from <i>Undaria pinnatifida</i> on proliferation, migration and apoptosis of breast cancer cell MCF7. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 734-742.	7.5	30
51	The promotion effect of biochar on electrochemical degradation of nitrobenzene. <i>Journal of Cleaner Production</i> , 2020, 244, 118890.	9.3	30
52	Metabonomic Variations Associated with AOM-Induced Precancerous Colorectal Lesions and Resveratrol Treatment. <i>Journal of Proteome Research</i> , 2012, 11, 3436-3448.	3.7	29
53	Sirtuin 1 represses PKC ϵ activity through regulating interplay of acetylation and phosphorylation in cardiac hypertrophy. <i>British Journal of Pharmacology</i> , 2019, 176, 416-435.	5.4	29
54	Effect of quorum quenching on biofouling and ammonia removal in membrane bioreactor under stressful conditions. <i>Chemosphere</i> , 2018, 199, 114-121.	8.2	28

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55	Reconstruction of Large Dorsal Digital Defects With Arterialized Venous Flaps. <i>Annals of Plastic Surgery</i> , 2013, 70, 666-671.	0.9	26
56	Mapping the Changes of Glutamate Using Glutamate Chemical Exchange Saturation Transfer (GluCEST) Technique in a Traumatic Brain Injury Model: A Longitudinal Pilot Study. <i>ACS Chemical Neuroscience</i> , 2019, 10, 649-657.	3.5	26
57	Phosphate enhancing fermentative hydrogen production from substrate with municipal solid waste composting leachate as a nutrient. <i>Bioresource Technology</i> , 2015, 190, 431-437.	9.6	25
58	Effective destruction of perfluorooctanoic acid by zero-valent iron laden biochar obtained from carbothermal reduction: Experimental and simulation study. <i>Science of the Total Environment</i> , 2022, 805, 150326.	8.0	25
59	Neonicotinoid insecticide resistance in the field populations of <i>Sogatella furcifera</i> (Horváth) in Central China from 2011 to 2015. <i>Journal of Asia-Pacific Entomology</i> , 2017, 20, 955-958.	0.9	24
60	The performance of nickel-loaded lignite residue for steam reforming of toluene as the model compound of biomass gasification tar. <i>Journal of the Energy Institute</i> , 2018, 91, 867-876.	5.3	24
61	Fermentative hydrogen production from fresh leachate in batch and continuous bioreactors. <i>Bioresource Technology</i> , 2011, 102, 5411-5417.	9.6	23
62	Effect of Hypoxia on Self-Renewal Capacity and Differentiation in Human Tendon-Derived Stem Cells. <i>Medical Science Monitor</i> , 2017, 23, 1334-1339.	1.1	23
63	The S-G2 phase enriched β -catenin/TCF complex ensures cell survival and cell cycle progression. <i>Journal of Cell Science</i> , 2014, 127, 4833-45.	2.0	21
64	2,4-Diaminopyrimidine MK2 inhibitors. Part II: Structure-based inhibitor optimization. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 334-337.	2.2	19
65	Progressive multiple sequence alignment with indel evolution. <i>BMC Bioinformatics</i> , 2018, 19, 331.	2.6	19
66	Submerged microfiltration-catalysis hybrid reactor treatment: Photocatalytic inactivation of bacteria in secondary wastewater effluent. <i>Separation and Purification Technology</i> , 2018, 198, 87-92.	7.9	17
67	Enhanced electrochemical degradation of 2,4-dichlorophenol with the assist of hydrochar. <i>Chemosphere</i> , 2020, 260, 127643.	8.2	16
68	UV assisted backwashing for fouling control in membrane bioreactor operation. <i>Journal of Membrane Science</i> , 2021, 639, 119751.	8.2	16
69	Mitigation of reverse osmosis membrane fouling by electrochemical-microfiltration- activated carbon pretreatment. <i>Journal of Membrane Science</i> , 2022, 656, 120615.	8.2	16
70	The Effect of Estrogen Deficiency on Receptor Activator of Nuclear Factor Kappa B Ligand and Osteoprotegerin Synthesis in Periapical Lesions Induced in Rats. <i>Journal of Endodontics</i> , 2007, 33, 1053-1056.	3.1	15
71	Phenotypic and Molecular Characteristics of Carbapenem-Non-Susceptible Enterobacteriaceae from a Teaching Hospital in Wenzhou, Southern China. <i>Japanese Journal of Infectious Diseases</i> , 2013, 66, 96-102.	1.2	15
72	Three-dimensional multi-walled carbon nanotube arrays coated by gold-sol as a surface-enhanced Raman scattering substrate. <i>Applied Optics</i> , 2014, 53, 1159.	1.8	14

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73	The clinical and genetic features in a cohort of mainland Chinese patients with thyrotoxic periodic paralysis. <i>BMC Neurology</i> , 2015, 15, 38.	1.8	14
74	Impact of the Interaction between Aquatic Humic Substances and Algal Organic Matter on the Fouling of a Ceramic Microfiltration Membrane. <i>Membranes</i> , 2018, 8, 7.	3.0	13
75	Identification and Characterization of a Cis-Encoded Antisense RNA Associated with the Replication Process of <i>Salmonella enterica</i> Serovar Typhi. <i>PLoS ONE</i> , 2013, 8, e61308.	2.5	13
76	Behavior of fast and slow phosphorus release from sewage sludge-derived biochar amended with CaO. <i>Environmental Science and Pollution Research</i> , 2021, 28, 28319-28328.	5.3	12
77	Effect of carbonate on anaerobic acidogenesis and fermentative hydrogen production from glucose using leachate as supplementary culture under alkaline conditions. <i>Bioresource Technology</i> , 2012, 113, 37-43.	9.6	10
78	Description and plasmid characterization of the qnrD determinant in Proteaeae in Wenzhou, Southern China. <i>Journal of Microbiology, Immunology and Infection</i> , 2018, 51, 115-122.	3.1	10
79	Long noncoding RNAs sustain high expression levels of exogenous octamer-binding protein 4 by sponging regulatory microRNAs during cellular reprogramming. <i>Journal of Biological Chemistry</i> , 2019, 294, 17863-17874.	3.4	10
80	In situ versus pre-quorum quenching of microbial signaling for enhanced biofouling control in membrane bioreactors. <i>Journal of Membrane Science</i> , 2019, 592, 117387.	8.2	10
81	Identification and characterization of L1-specific endo-siRNAs essential for early embryonic development in pig. <i>Oncotarget</i> , 2017, 8, 23167-23176.	1.8	10
82	5'-UTR of <i>fliC</i> increases the invasive capacity of <i>Salmonella enterica</i> serovar Typhi by influencing the expression of <i>bax</i> . <i>Future Microbiology</i> , 2015, 10, 941-954.	2.0	8
83	Short Exon Detection via Wavelet Transform Modulus Maxima. <i>PLoS ONE</i> , 2016, 11, e0163088.	2.5	8
84	Variants in <i>MME</i> are associated with autosomal recessive distal hereditary motor neuropathy. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 1728-1738.	3.7	8
85	Genotyping of <i>Salmonella enterica</i> serovar Typhi strains isolated from 1959 to 2006 in China and analysis of genetic diversity by genomic microarray. <i>Croatian Medical Journal</i> , 2011, 52, 688-693.	0.7	7
86	A comparative study of biological activated carbon based treatments on two different types of municipal reverse osmosis concentrates. <i>Chemosphere</i> , 2020, 240, 124925.	8.2	7
87	Oasis system and its reasonable development in Sangong River watershed in north of the Tianshan Mountains, Xinjiang, China. <i>Chinese Geographical Science</i> , 2006, 16, 236-242.	3.0	6
88	Cyclic Fatigue Resistance and Force Generated by OneShape Instruments during Curved Canal Preparation. <i>PLoS ONE</i> , 2016, 11, e0160815.	2.5	4
89	Photolytic quorum quenching effects on the microbial communities and functional gene expressions in membrane bioreactors. <i>Science of the Total Environment</i> , 2022, 819, 152017.	8.0	3
90	Regeneration of Fe II /Fe III complex from NO chelating absorption by microbial fuel cell. <i>Environmental Science and Pollution Research</i> , 2019, 26, 19540-19548.	5.3	2

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91	Control Strategy and Simulation for Oxygen Supply System with Wearable Oxygen Mask. , 2019, , .		0