Qin Zhang

List of Publications by Year
in descending order

99 papers	2,987 citations	147801 31 h-index	182427 51 g-index
101 all docs	101 docs citations	101 times ranked	2224 citing authors

#	Article	IF	Citations
1	Potential influences of exogenous pollutants occurred in waste activated sludge on anaerobic digestion: A review. Journal of Hazardous Materials, 2020, 383, 121176.	12.4	182
2	Near-infrared photoactivated nanomedicines for photothermal synergistic cancer therapy. Nano Today, 2021, 37, 101073.	11.9	182
3	Potentials and challenges of phosphorus recovery as vivianite from wastewater: A review. Chemosphere, 2019, 226, 246-258.	8.2	154
4	Novel strategy to stimulate the food wastes anaerobic fermentation performance by eggshell wastes conditioning and the underlying mechanisms. Chemical Engineering Journal, 2020, 398, 125560.	12.7	115
5	Exosome-guided bone targeted delivery of Antagomir-188 as an anabolic therapy for bone loss. Bioactive Materials, 2021, 6, 2905-2913.	15.6	106
6	The mechanism of m6A methyltransferase METTL3-mediated autophagy in reversing gefitinib resistance in NSCLC cells by Î²-elemene. Cell Death and Disease, 2020, 11, 969.	6.3	105
7	Improving anaerobic fermentation of waste activated sludge using iron activated persulfate treatment. Bioresource Technology, 2018, 268, 68-76.	9.6	98
8	Promotion of short-chain fatty acids production and fermented sludge properties via persulfate treatments with different activators: Performance and mechanisms. Bioresource Technology, 2020, 295, 122278.	9.6	86
9	Correlations of nitrogen removal and core functional genera in full-scale wastewater treatment plants: Influences of different treatment processes and influent characteristics. Bioresource Technology, 2020, 297, 122455.	9.6	85
10	Phosphorus recovery as vivianite from waste activated sludge via optimizing iron source and pH value during anaerobic fermentation. Bioresource Technology, 2019, 293, 122088.	9.6	77
11	Distinct effects of hypochlorite types on the reduction of antibiotic resistance genes during waste activated sludge fermentation: Insights of bacterial community, cellular activity, and genetic expression. Journal of Hazardous Materials, 2021, 403, 124010.	12.4	74
12	Time-series deformation monitoring over mining regions with SAR intensity-based offset measurements. Remote Sensing Letters, 2013, 4, 436-445.	1.4	68
13	Bacterial extracellular vesicles as bioactive nanocarriers for drug delivery: Advances and perspectives. Bioactive Materials, 2022, 14, 169-181.	15.6	65
14	Metatranscriptomic insights of the metabolic process enhancement during food wastes fermentation driven by linear alkylbenzene sulphonates. Journal of Cleaner Production, 2021, 315, 128145.	9.3	60
15	Dimethyl Sulfoxide Serves as a Dual Synthon: Construction of 5â€Methyl Pyrimidine Derivatives via Four Component Oxidative Annulation. Advanced Synthesis and Catalysis, 2018, 360, 2267-2271.	4.3	59
16	Enhancing the anaerobic bioconversion of complex organics in food wastes for volatile fatty acids production by zero-valent iron and persulfate stimulation. Science of the Total Environment, 2019, 669, 540-546.	8.0	52
17	Enhanced volatile fatty acids production from waste activated sludge with synchronous phosphorus fixation and pathogens inactivation by calcium hypochlorite stimulation. Science of the Total Environment, 2020, 712, 136500.	8.0	47
18	Efficient production of short-chain fatty acids from anaerobic fermentation of liquor wastewater and waste activated sludge by breaking the restrictions of low bioavailable substrates and microbial activity. Bioresource Technology, 2018, 268, 549-557.	9.6	46

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19	Electrochemical/Fe3+/peroxymonosulfate system for the degradation of Acid Orange 7 adsorbed on activated carbon fiber cathode. Chemosphere, 2020, 241, 125125.	8.2	45
20	Electrical properties of poly(phenylene sulfide)/multiwalled carbon nanotube composites prepared by simple mixing and compression. Journal of Applied Polymer Science, 2008, 109, 720-726.	2.6	43
21	A novel approach of synchronously recovering phosphorus as vivianite and volatile fatty acids during waste activated sludge and food waste co-fermentation: Performance and mechanisms. Bioresource Technology, 2020, 305, 123078.	9.6	42
22	Ecotoxicity and environmental fates of newly recognized contaminants-artificial sweeteners: A review. Science of the Total Environment, 2019, 653, 1149-1160.	8.0	41
23	How Do Biocides That Occur in Waste Activated Sludge Affect the Resource Recovery for Short-Chain Fatty Acids Production. ACS Sustainable Chemistry and Engineering, 2019, 7, 1648-1657.	6.7	40
24	Effects of different hypochlorite types on the waste activated sludge fermentation from the perspectives of volatile fatty acids production, microbial community and activity, and characteristics of fermented sludge. Bioresource Technology, 2020, 307, 123227.	9.6	40
25	Hyalase-Mediated Cascade Degradation of a Matrix Barrier and Immune Cell Penetration by a Photothermal Microneedle for Efficient Anticancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 26790-26799.	8.0	40
26	Synergistic effects of iron and persulfate on the efficient production of volatile fatty acids from waste activated sludge: Understanding the roles of bioavailable substrates, microbial community & activities, and environmental factors. Biochemical Engineering Journal, 2019, 141, 71-79.	3.6	39
27	Synthesis and preliminary evaluation of curcumin analogues as cytotoxic agents. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1010-1014.	2.2	38
28	Influences of different iron forms activated peroxydisulfate on volatile fatty acids production during waste activated sludge anaerobic fermentation. Science of the Total Environment, 2020, 705, 135878.	8.0	35
29	Current status of hypochlorite technology on the wastewater treatment and sludge disposal: Performance, principals and prospects. Science of the Total Environment, 2022, 803, 150085.	8.0	35
30	Promoting the anaerobic production of short-chain fatty acids from food wastes driven by the reuse of linear alkylbenzene sulphonates-enriched laundry wastewater. Bioresource Technology, 2019, 282, 301-309.	9.6	34
31	Immunomodulatory application of engineered hydrogels in regenerative medicine. Applied Materials Today, 2019, 14, 126-136.	4.3	34
32	Continuous waste activated sludge and food waste co-fermentation for synchronously recovering vivianite and volatile fatty acids at different sludge retention times: Performance and microbial response. Bioresource Technology, 2020, 313, 123610.	9.6	33
33	Shifts of microbial community and metabolic function during food wastes and waste activated sludge co-fermentation in semi-continuous-flow reactors: Effects of fermentation substrate and zero-valent iron. Bioresource Technology, 2020, 313, 123686.	9.6	33
34	Biological functions of m6A methyltransferases. Cell and Bioscience, 2021, 11, 15.	4.8	33
35	A preliminary metatranscriptomic insight of eggshells conditioning on substrates metabolism during food wastes anaerobic fermentation. Science of the Total Environment, 2021, 761, 143214.	8.0	31
36	Review on the determination and distribution patterns of a widespread contaminant artificial sweetener in the environment. Environmental Science and Pollution Research, 2019, 26, 19078-19096.	5.3	30

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37	Allâ€inorganic CsPbI₂Br Perovskite Solar Cell with Openâ€Circuit Voltage over 1.3â€‰V by Balancing Electron and Hole Transport. Solar Rrl, 2020, 4, 2000016.	5.8	30
38	A highly zinc-selective ratiometric fluorescent probe based on AIE luminogen functionalized coordination polymer nanoparticles. RSC Advances, 2017, 7, 21446-21451.	3.6	29
39	Switchable Access to 3-Carboxylate-4-quinolones and 1-Vinyl-3-carboxylate-4-quinolones via Oxidative Cyclization of Isatins and Alkynes. Organic Letters, 2018, 20, 4231-4234.	4.6	29
40	Immunotherapy of Tumor RNA-Loaded Lipid Nanoparticles Against Hepatocellular Carcinoma. International Journal of Nanomedicine, 2021, Volume 16, 1553-1564.	6.7	29
41	Cadmium hydroxide nanowires â€“ new high capacity Niâ€“Cd battery anode materials without memory effect. Journal of Materials Chemistry, 2012, 22, 13922.	6.7	27
42	Iron coupling with carbon fiber to stimulate biofilms formation in aerobic biological film systems for improved decentralized wastewater treatment: Performance, mechanisms and implications. Bioresource Technology, 2021, 319, 124151.	9.6	27
43	Pegaharmols Aâ€“B, Axially Chiral Î²-Carboline-quinazoline Dimers from the Roots of Peganum harmala. Organic Letters, 2020, 22, 7522-7525.	4.6	24
44	Recent ground deformation of Taiyuan basin (China) investigated with C-, L-, and X-bands SAR images. Journal of Geodynamics, 2013, 70, 28-35.	1.6	23
45	Bone Regeneration Using MMP-Cleavable Peptides-Based Hydrogels. Gels, 2021, 7, 199.	4.5	21
46	An iterative Goldstein SAR interferogram filter. International Journal of Remote Sensing, 2012, 33, 3443-3455.	2.9	20
47	Capacitance Loss Mechanism and Prediction Based on Electrochemical Corrosion in Metallized Film Capacitors. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 654-662.	2.9	20
48	Effects of persulfate treatment on the fates of antibiotic resistance genes in waste activated sludge fermentation process and the underlying mechanism. Bioresource Technology, 2022, 345, 126474.	9.6	19
49	Surface Reconstruction-Induced Efficient CsPbI₂Br Perovskite Solar Cell using Phenylethylammonium Iodide. ACS Applied Energy Materials, 2021, 4, 5583-5589.	5.1	17
50	Distribution patterns of microbial community and functional characteristics in full-scale wastewater treatment plants: Focusing on the influent types. Chemosphere, 2021, 281, 130899.	8.2	17
51	Identification of Glutathione S-Transferase Genes in Hami Melon (Cucumis melo var. saccharinus) and Their Expression Analysis Under Cold Stress. Frontiers in Plant Science, 2021, 12, 672017.	3.6	16
52	Persulfate-based strategy for promoted acesulfame removal during sludge anaerobic fermentation: Combined chemical and biological effects. Journal of Hazardous Materials, 2022, 434, 128922.	12.4	16
53	Mechanisms of oral absorption improvement for insoluble drugs by the combination of phospholipid complex and SNEDDS. Drug Delivery, 2019, 26, 1155-1166.	5.7	15
54	Two-dimensional deformation monitoring over Qingxu (China) by integrating C-, L- and X-bands SAR images. Remote Sensing Letters, 2014, 5, 27-36.	1.4	14

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55	Clinical Characteristics, Treatment Patterns, and Outcomes of Primary Canaliculitis among Patients in Beijing, China. BioMed Research International, 2015, 2015, 1-6.	1.9	14
56	Surface modification of coronary stents with SiCOH plasma nanocoatings for improving endothelialization and anticoagulation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 464-472.	3.4	14
57	A Carbodiimide Crossâ€Linked Silk Fibroin/Sodium Alginate Composite Hydrogel with Tunable Properties for Sustained Drug Delivery. Macromolecular Materials and Engineering, 2021, 306, 2100470.	3.6	14
58	Wound dressing gel with resisted bacterial penetration and enhanced re-epithelization for corneal epithelial-stromal regeneration. Applied Materials Today, 2021, 24, 101119.	4.3	13
59	Tumor redox microenvironment modulating composite hydrogels for enhanced sonodynamic therapy of colorectal cancer. Journal of Materials Chemistry B, 2022, 10, 1960-1968.	5.8	13
60	Dehydrative Glycosylation Enabled by a Comproportionation Reaction of 2â€Arylâ€1,3â€dithiane 1â€Oxide â€. Chinese Journal of Chemistry, 2020, 38, 43-49.	4.9	12
61	Lipopolysaccharide-induced TNFÎ± factor (LITAF) promotes inflammatory responses and activates apoptosis in zebrafish Danio rerio. Gene, 2021, 780, 145487.	2.2	12
62	Synthesis and biological evaluation of ruthenium polypyridine complexes with 18Î²-glycyrrhetinic acid as antibacterial agents against Staphylococcus aureus. Dalton Transactions, 2022, 51, 1099-1111.	3.3	12
63	Tumor extracellular matrix modulating strategies for enhanced antitumor therapy of nanomedicines. Materials Today Bio, 2022, 16, 100364.	5.5	12
64	Oxygen-producing proenzyme hydrogels for photodynamic-mediated metastasis-inhibiting combinational therapy. Journal of Materials Chemistry B, 2021, 9, 5255-5263.	5.8	11
65	Molecular perspective of efficiency and safety problems of chemical enhancers: bottlenecks and recent advances. Drug Delivery and Translational Research, 2022, 12, 1376-1394.	5.8	11
66	Inhibition of 1, 4-dioxane on the denitrification process by altering the viability and metabolic activity of Paracoccus denitrificans. Environmental Science and Pollution Research, 2018, 25, 27274-27282.	5.3	10
67	Polychlorinated biphenyl quinone induces endothelial barrier dysregulation by setting the cross talk between VE-cadherin, focal adhesion, and MAPK signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 308, H1205-H1214.	3.2	9
68	Transcriptomic responses of S100 family to bacterial and viral infection in zebrafish. Fish and Shellfish Immunology, 2019, 94, 685-696.	3.6	9
69	Improved Relativistic Cycle-Consistent GAN With Dilated Residual Network and Multi-Attention for Speech Enhancement. IEEE Access, 2020, 8, 183272-183285.	4.2	9
70	Monitoring the Activation of Caspases-1/3/4 for Describing the Pyroptosis Pathways of Cancer Cells. Analytical Chemistry, 2021, 93, 12022-12031.	6.5	9
71	Super-strong CNT composite yarn with tight CNT packing via a compress-stretch process. Nanoscale, 2022, 14, 9078-9085.	5.6	9
72	Anti-tumor alkaloids from Peganum harmala. Phytochemistry, 2022, 197, 113107.	2.9	8

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73	Liposome-based nanocomplexes with pH-sensitive second near-infrared photothermal property for combinational immunotherapy. Applied Materials Today, 2021, 25, 101258.	4.3	8
74	Designed construction of tween 60@2Î²-CD self-assembly vesicles as drug delivery carrier for cancer chemotherapy. Drug Delivery, 2018, 25, 623-631.	5.7	7
75	¹³¹I-Labeled gold nanoframeworks for radiotherapy-combined second near-infrared photothermal therapy of cancer. Journal of Materials Chemistry B, 2021, 9, 9316-9323.	5.8	7
76	Landslide detection and monitoring with insar technique over upper reaches of jinsha river, china. , 2016, , .		6
77	Unveiling the behaviors and mechanisms of percarbonate on the sludge anaerobic fermentation for volatile fatty acids production. Science of the Total Environment, 2022, 838, 156054.	8.0	5
78	Adsorption Kinetics and Adsorption Isotherms of Bovin Serum Albumin (BSA) onto Magnetic ZnFe₂O₄ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 2899-2905.	0.9	4
79	Trap Characteristic and Potential Trap Model of Water Trees in XLPE. , 2018, , .		4
80	Design of oversampled nonuniform filter banks with arbitrary rational frequency partitioning. Signal, Image and Video Processing, 2017, 11, 689-696.	2.7	3
81	Study on the Voltage Maintaining Performance of High Energy Density Capacitor. IEEE Transactions on Plasma Science, 2018, 46, 3401-3407.	1.3	3
82	A cation exchange strategy to construct a targeting nanoprobe for enhanced T₁-weighted MR imaging of tumors. Journal of Materials Chemistry B, 2020, 8, 8519-8526.	5.8	3
83	Therapeutic approach for global myocardial injury using bone marrow-derived mesenchymal stem cells by cardiac support device in rats. Biomedical Microdevices, 2021, 23, 5.	2.8	3
84	Albumin-Stabilized Manganese Oxide/Semiconducting Polymer Nanocomposites for Photothermal-Chemodynamic Therapy of Hepatic Carcinoma. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	3
85	An Oxygen-Enriched Photodynamic Nanospray for Postsurgical Tumor Regression. ACS Biomaterials Science and Engineering, 2020, 6, 6415-6423.	5.2	2
86	Influence of Laser Energy Density and Printing Angle on the Electrical Properties of PA12 Made by SLS. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 906-914.	2.9	2
87	Identification and expression analysis of group II C-type lectin domain containing receptors in grass carp Ctenopharyngodon idella. Gene, 2021, 789, 145668.	2.2	2
88	Acid-driven aggregation of selenol-functionalized zwitterionic gold nanoparticles improves the photothermal treatment efficacy of tumors. Materials Chemistry Frontiers, 2022, 6, 775-782.	5.9	2
89	Deep Auxiliary Learning for Point Cloud Generation. IEEE Access, 2020, 8, 18538-18545.	4.2	1
90	Benchmarking the Robustness of Object Detection Based on Near-Real Military Scenes. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	1.2	1

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91	Large coverage surface deformation monitoring with multiple insar techniques and multiple sensor SAR datasets: a case study in Linfen-Yuncheng basin, China. , 2016, , .		0
92	Mapping overall taiyuan graben basin deformation with SBAS-InSAR technique. , 2016, , .		0
93	Research on CR-based offset technique for mining deformation monitoring. , 2016, , .		0
94	Batch filtering of multi-baseline SAR interferograms. , 2017, , .		0
95	Value-Based Local Connection Scheduling Algorithm for Distributed Video Transcoding System. , 2018, , .		0
96	Fine-Grained Footstep Image Classification. , 2019, , .		0
97	A Novel Audio Extraction and Restoration System for Optical Soundtrack. , 2020, , .		0
98	Flexible Light Field Angular Superresolution via a Deep Coarse-to-Fine Framework. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	1.2	0
99	Enhancing Hole Transport of Quantumâ€Dot Lightâ€Emitting Diodes by a Cruciform Oligothiophene for Effective pâ€Type Doping. Macromolecular Rapid Communications, 2022, , 2200187.	3.9	0