

Guanglei Qiu

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,618
citations

126901

33
h-index

133244

59
g-index

73
all docs

73
docs citations

73
times ranked

3954
citing authors

#	ARTICLE	IF	CITATIONS
1	The remediation of heavy metals contaminated sediment. <i>Journal of Hazardous Materials</i> , 2009, 161, 633-640.	12.4	681
2	Osmotic membrane bioreactor for wastewater treatment and the effect of salt accumulation on system performance and microbial community dynamics. <i>Bioresource Technology</i> , 2013, 150, 287-297.	9.6	157
3	Nutrients removal and recovery from anaerobically digested swine wastewater by struvite crystallization without chemical additions. <i>Journal of Hazardous Materials</i> , 2011, 190, 140-149.	12.4	146
4	Direct phosphorus recovery from municipal wastewater via osmotic membrane bioreactor (OMBR) for wastewater treatment. <i>Bioresource Technology</i> , 2014, 170, 221-229.	9.6	140
5	Polyphosphate-accumulating organisms in full-scale tropical wastewater treatment plants use diverse carbon sources. <i>Water Research</i> , 2019, 149, 496-510.	11.3	129
6	Direct and Complete Phosphorus Recovery from Municipal Wastewater Using a Hybrid Microfiltration-Forward Osmosis Membrane Bioreactor Process with Seawater Brine as Draw Solution. <i>Environmental Science & Technology</i> , 2015, 49, 6156-6163.	10.0	114
7	A biosurfactant-producing <i>Pseudomonas aeruginosa</i> S5 isolated from coking wastewater and its application for bioremediation of polycyclic aromatic hydrocarbons. <i>Bioresource Technology</i> , 2019, 281, 421-428.	9.6	113
8	Characterization of bacterial communities in hybrid upflow anaerobic sludge blanket (UASB) membrane bioreactor (MBR) process for berberine antibiotic wastewater treatment. <i>Bioresource Technology</i> , 2013, 142, 52-62.	9.6	107
9	Silver-PEGylated dendrimer nanocomposite coating for anti-fouling thin film composite membranes for water treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 207-214.	4.7	102
10	Effect of Zinc oxide nanoparticles on biological wastewater treatment in a sequencing batch reactor. <i>Journal of Cleaner Production</i> , 2015, 88, 139-145.	9.3	93
11	Effects of ZnO nanoparticles on wastewater treatment and their removal behavior in a membrane bioreactor. <i>Bioresource Technology</i> , 2015, 185, 125-133.	9.6	83
12	The potential of hybrid forward osmosis membrane bioreactor (FOMBR) processes in achieving high throughput treatment of municipal wastewater with enhanced phosphorus recovery. <i>Water Research</i> , 2016, 105, 370-382.	11.3	83
13	Short-term fouling propensity and flux behavior in an osmotic membrane bioreactor for wastewater treatment. <i>Desalination</i> , 2014, 332, 91-99.	8.2	77
14	Fate and removal of selected antibiotics in an osmotic membrane bioreactor. <i>Chemical Engineering Journal</i> , 2018, 334, 198-205.	12.7	71
15	Three-dimensional Co/Ni bimetallic organic frameworks for high-efficient catalytic ozonation of atrazine: Mechanism, effect parameters, and degradation pathways analysis. <i>Chemosphere</i> , 2020, 253, 126767.	8.2	71
16	Annotated bacterial chromosomes from frame-shift-corrected long-read metagenomic data. <i>Microbiome</i> , 2019, 7, 61.	11.1	69
17	Osmotic membrane bioreactor for municipal wastewater treatment and the effects of silver nanoparticles on system performance. <i>Journal of Cleaner Production</i> , 2015, 88, 146-151.	9.3	65
18	Zwitterions coated hollow fiber membranes with enhanced antifouling properties for osmotic power generation from municipal wastewater. <i>Water Research</i> , 2016, 104, 389-396.	11.3	62

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19	Combination of upflow anaerobic sludge blanket (UASB) and membrane bioreactor (MBR) for berberine reduction from wastewater and the effects of berberine on bacterial community dynamics. <i>Journal of Hazardous Materials</i> , 2013, 246-247, 34-43.	12.4	57
20	Residual chemical oxygen demand (COD) fractionation in bio-treated coking wastewater integrating solution property characterization. <i>Journal of Environmental Management</i> , 2019, 246, 324-333.	7.8	57
21	Structure and function of microbial community involved in a novel full-scale prefix oxic coking wastewater treatment O/H/O system. <i>Water Research</i> , 2019, 164, 114963.	11.3	55
22	Recent advances in understanding the ecophysiology of enhanced biological phosphorus removal. <i>Current Opinion in Biotechnology</i> , 2021, 67, 166-174.	6.6	55
23	An Effective Design of Electrically Conducting Thin-Film Composite (TFC) Membranes for Bio and Organic Fouling Control in Forward Osmosis (FO). <i>Environmental Science & Technology</i> , 2016, 50, 10596-10605.	10.0	50
24	High Dissolved Oxygen Selection against <i>Nitrospira</i> Sublineage I in Full-Scale Activated Sludge. <i>Environmental Science & Technology</i> , 2019, 53, 8157-8166.	10.0	50
25	Strategies for Improving the Performance and Application of MOFs Photocatalysts. <i>ChemCatChem</i> , 2019, 11, 2978-2993.	3.7	46
26	The correlations among wastewater internal energy, energy consumption and energy recovery/production potentials in wastewater treatment plant: An assessment of the energy balance. <i>Science of the Total Environment</i> , 2020, 714, 136655.	8.0	46
27	A comparative study on the toxicity of nano zero valent iron (nZVI) on aerobic granular sludge and flocculent activated sludge: Reactor performance, microbial behavior, and mechanism of toxicity. <i>Chemical Engineering Research and Design</i> , 2019, 129, 238-248.	5.6	42
28	Influence of reflux ratio on two-stage anoxic/oxic with MBR for leachate treatment: Performance and microbial community structure. <i>Bioresource Technology</i> , 2018, 256, 69-76.	9.6	41
29	Metabolic Traits of <i>Candidatus</i> <i>Accumulibacter</i> clade IIF Strain SCELSE-1 Using Amino Acids As Carbon Sources for Enhanced Biological Phosphorus Removal. <i>Environmental Science & Technology</i> , 2020, 54, 2448-2458.	10.0	41
30	Selection of optimum biological treatment for coking wastewater using analytic hierarchy process. <i>Science of the Total Environment</i> , 2020, 742, 140400.	8.0	41
31	Towards high through-put biological treatment of municipal wastewater and enhanced phosphorus recovery using a hybrid microfiltration-forward osmosis membrane bioreactor with hydraulic retention time in sub-hour level. <i>Bioresource Technology</i> , 2016, 219, 298-310.	9.6	40
32	Effect of silver nanoparticles on system performance and microbial community dynamics in a sequencing batch reactor. <i>Journal of Cleaner Production</i> , 2016, 130, 137-142.	9.3	40
33	Phosphorus recovery from fosfomycin pharmaceutical wastewater by wet air oxidation and phosphate crystallization. <i>Chemosphere</i> , 2011, 84, 241-246.	8.2	37
34	Surface Reaction Route To Increase the Loading of Antimicrobial Ag Nanoparticles in Forward Osmosis Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2959-2966.	6.7	34
35	Removal behaviors of antibiotics in a hybrid microfiltration-forward osmotic membrane bioreactor for real municipal wastewater treatment. <i>Chemical Engineering Journal</i> , 2021, 417, 129146.	12.7	33
36	Material inter-recycling for advanced nitrogen and residual COD removal from bio-treated coking wastewater through autotrophic denitrification. <i>Bioresource Technology</i> , 2019, 289, 121616.	9.6	32

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37	A photo-bactericidal thin film composite membrane for forward osmosis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6781-6786.	10.3	31
38	Treatment of berberine hydrochloride pharmaceutical wastewater by O ₃ /UV/H ₂ O ₂ advanced oxidation process. <i>Environmental Earth Sciences</i> , 2015, 73, 4939-4946.	2.7	31
39	Carbon uptake bioenergetics of PAOs and GAOs in full-scale enhanced biological phosphorus removal systems. <i>Water Research</i> , 2022, 216, 118258.	11.3	30
40	Recovery of complete genomes and non-chromosomal replicons from activated sludge enrichment microbial communities with long read metagenome sequencing. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 23.	6.4	29
41	Synergy between autotrophic denitrification and Anammox driven by FeS in a fluidized bed bioreactor for advanced nitrogen removal. <i>Chemosphere</i> , 2021, 280, 130726.	8.2	26
42	Membrane distillation for wastewater treatment: Current trends, challenges and prospects of dense membrane distillation. <i>Journal of Water Process Engineering</i> , 2022, 46, 102615.	5.6	25
43	Global warming readiness: Feasibility of enhanced biological phosphorus removal at 35°C. <i>Water Research</i> , 2022, 216, 118301.	11.3	25
44	Investigation of the fate of heavy metals based on process regulation-chemical reaction-phase distribution in an A-O ₁ -H-O ₂ biological coking wastewater treatment system. <i>Journal of Environmental Management</i> , 2019, 247, 234-241.	7.8	23
45	Electrostatic interaction governed solute transport in forward osmosis. <i>Water Research</i> , 2020, 173, 115590.	11.3	22
46	Achieving nitritation in an aerobic fluidized reactor for coking wastewater treatment: Operation stability, mechanisms and model analysis. <i>Chemical Engineering Journal</i> , 2021, 406, 126816.	12.7	20
47	High-Performance Ultrafiltration Membrane: Recent Progress and Its Application for Wastewater Treatment. <i>Current Pollution Reports</i> , 2021, 7, 448-462.	6.6	20
48	An Oxidative-Hydrolytic-Oxic Process at the Nexus of Sludge Spatial Segmentation, Microbial Functionality, and Pollutants Removal in the Treatment of Coking Wastewater. <i>ACS ES&T Water</i> , 2021, 1, 1252-1262.	4.6	19
49	Impacts of Nano-TiO ₂ on System Performance and Bacterial Community and Their Removal During Biological Treatment of Wastewater. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	18
50	Simultaneous decarburization, nitrification and denitrification (SDCND) in coking wastewater treatment using an integrated fluidized-bed reactor. <i>Journal of Environmental Management</i> , 2019, 252, 109661.	7.8	17
51	Dual-Functional Coating of Forward Osmosis Membranes for Hydrophilization and Antimicrobial Resistance. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500599.	3.7	15
52	Biotoxicity evaluation of zinc oxide nanoparticles on bacterial performance of activated sludge at COD, nitrogen, and phosphorus reduction. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	15
53	Diversity and functional prediction of microbial communities involved in the first aerobic bioreactor of coking wastewater treatment system. <i>PLoS ONE</i> , 2020, 15, e0243748.	2.5	15
54	Glycine adversely affects enhanced biological phosphorus removal. <i>Water Research</i> , 2022, 209, 117894.	11.3	15

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55	Evolution of biochemical processes in coking wastewater treatment: A combined evaluation of material and energy efficiencies and secondary pollution. <i>Science of the Total Environment</i> , 2022, 807, 151072.	8.0	13
56	Pilot-scale treatment of pharmaceutical berberine wastewater by Fenton oxidation. <i>Environmental Earth Sciences</i> , 2015, 73, 4967-4977.	2.7	12
57	Effects of CeO ₂ nanoparticles on system performance and bacterial community dynamics in a sequencing batch reactor. <i>Water Science and Technology</i> , 2016, 73, 95-101.	2.5	9
58	Bis-(3'-5'-cyclic dimeric guanosine monophosphate (c-di-GMP) mediated membrane fouling in membrane bioreactor. <i>Journal of Membrane Science</i> , 2022, 646, 120224.	8.2	7
59	Immobilization of Phosphatidylserine by Ethanol and Lysozyme on the Cell Surface for Evaluation of Apoptosis-Like Decay in Activated-Sludge Bacteria. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	5
60	Comparison and modeling of two biofilm processes applied to decentralized wastewater treatment. <i>Frontiers of Environmental Science and Engineering in China</i> , 2009, 3, 412-420.	0.8	4
61	Influence of Extraction Solvent on Nontargeted Metabolomics Analysis of Enrichment Reactor Cultures Performing Enhanced Biological Phosphorus Removal (EBPR). <i>Metabolites</i> , 2021, 11, 269.	2.9	4
62	Effects of alkali, autoclaving, and Fe ⁺ autoclaving pretreatment on anaerobic digestion performance of coking sludge from the perspective of sludge extracts and methane production. <i>Environmental Science and Pollution Research</i> , 2021, 28, 13151-13161.	5.3	3
63	Microbial community composition and function prediction involved in the hydrolytic bioreactor of coking wastewater treatment process. <i>Archives of Microbiology</i> , 2022, 204, .	2.2	1
64	Adsorption Characteristics of Cu ²⁺ onto Zeolite from Pharmaceutical Industrial Wastewater. , 2011, , .		0
65	Performance of the Tidal-Flow Wetland for Wastewater Treatment in Low Temperature Seasons. , 2011, , .		0
66	Organic and Nutrients Removal by 5 Aquatic Plants in Simulated Constructed Wetland. , 2011, , .		0
67	Notice of Retraction: Kinetics of Wet Air Oxidation of Fosfomycin Pharmaceutical Wastewater. , 2011, , .		0
68	Notice of Retraction: Effect of Organic Loading on Membrane Fouling in Membrane Bioreactor for Berberine Pharmaceutical Wastewater Treatment. , 2011, , .		0
69	Kinetics of Organic and Ammonia Removal in Swine Wastewater Treatment Using Moving Bed Biofilm Reactor. , 2011, , .		0
70	PREPARATION AND MICROWAVE ABSORBING PROPERTIES OF POLYANILINE/MONTMORILLONITE NANOCOMPOSITES. <i>Acta Polymerica Sinica</i> , 2010, 006, 1100-1105.	0.0	0