

Guanglei Qiu

List of Publications by Year in descending order

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70
papers

3,618
citations

126907
33
h-index

133252
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. Journal of Hazardous Materials, 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. Bioresource Technology, 2013, 150, 287-297.	9.6	157
3	Nutrients removal and recovery from anaerobically digested swine wastewater by struvite crystallization without chemical additions. Journal of Hazardous Materials, 2011, 190, 140-149.	12.4	146
4	Direct phosphorus recovery from municipal wastewater via osmotic membrane bioreactor (OMBR) for wastewater treatment. Bioresource Technology, 2014, 170, 221-229.	9.6	140
5	Polyphosphate-accumulating organisms in full-scale tropical wastewater treatment plants use diverse carbon sources. Water Research, 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. Environmental Science & Technology, 2015, 49, 6156-6163.	10.0	114
7	A biosurfactant-producing Pseudomonas aeruginosa S5 isolated from coking wastewater and its application for bioremediation of polycyclic aromatic hydrocarbons. Bioresource Technology, 2019, 281, 421-428.	9.6	113
8	Characterization of bacterial communities in hybrid upflow anaerobic sludge blanket (UASB)â€“membrane bioreactor (MBR) process for berberine antibiotic wastewater treatment. Bioresource Technology, 2013, 142, 52-62.	9.6	107
9	Silverâ€“PEGylated dendrimer nanocomposite coating for anti-fouling thin film composite membranes for water treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 207-214.	4.7	102
10	Effect of Zinc oxide nanoparticles on biological wastewater treatment in a sequencing batch reactor. Journal of Cleaner Production, 2015, 88, 139-145.	9.3	93
11	Effects of ZnO nanoparticles on wastewater treatment and their removal behavior in a membrane bioreactor. Bioresource Technology, 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. Water Research, 2016, 105, 370-382.	11.3	83
13	Short-term fouling propensity and flux behavior in an osmotic membrane bioreactor for wastewater treatment. Desalination, 2014, 332, 91-99.	8.2	77
14	Fate and removal of selected antibiotics in an osmotic membrane bioreactor. Chemical Engineering Journal, 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. Chemosphere, 2020, 253, 126767.	8.2	71
16	Annotated bacterial chromosomes from frame-shift-corrected long-read metagenomic data. Microbiome, 2019, 7, 61.	11.1	69
17	Osmotic membrane bioreactor for municipal wastewater treatment and the effects of silver nanoparticles on system performance. Journal of Cleaner Production, 2015, 88, 146-151.	9.3	65
18	Zwitterions coated hollow fiber membranes with enhanced antifouling properties for osmotic power generation from municipal wastewater. Water Research, 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. Journal of Hazardous Materials, 2013, 246-247, 34-43.	12.4	57
20	Residual chemical oxygen demand (COD) fractionation in bio-treated coking wastewater integrating solution property characterization. Journal of Environmental Management, 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. Water Research, 2019, 164, 114963.	11.3	55
22	Recent advances in understanding the ecophysiology of enhanced biological phosphorus removal. Current Opinion in Biotechnology, 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). Environmental Science & Technology, 2016, 50, 10596-10605.	10.0	50
24	High Dissolved Oxygen Selection against <i>Nitrospira</i> Sublineage I in Full-Scale Activated Sludge. Environmental Science & Technology, 2019, 53, 8157-8166.	10.0	50
25	Strategies for Improving the Performance and Application of MOFs Photocatalysts. ChemCatChem, 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. Science of the Total Environment, 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. Chemical Engineering Research and Design, 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. Bioresource Technology, 2018, 256, 69-76.	9.6	41
29	Metabolic Traits of <i>Candidatus</i> Accumulibacter clade IIF Strain SCELSE-1 Using Amino Acids As Carbon Sources for Enhanced Biological Phosphorus Removal. Environmental Science & Technology, 2020, 54, 2448-2458.	10.0	41
30	Selection of optimum biological treatment for coking wastewater using analytic hierarchy process. Science of the Total Environment, 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. Bioresource Technology, 2016, 219, 298-310.	9.6	40
32	Effect of silver nanoparticles on system performance and microbial community dynamics in a sequencing batch reactor. Journal of Cleaner Production, 2016, 130, 137-142.	9.3	40
33	Phosphorus recovery from fosfomycin pharmaceutical wastewater by wet air oxidation and phosphate crystallization. Chemosphere, 2011, 84, 241-246.	8.2	37
34	Surface Reaction Route To Increase the Loading of Antimicrobial Ag Nanoparticles in Forward Osmosis Membranes. ACS Sustainable Chemistry and Engineering, 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. Chemical Engineering Journal, 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. Bioresource Technology, 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-O1-H-O2 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 nitrification 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