

Tao Lyu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

1,322
citations

22
h-index

33
g-index

67
ext. papers

1,854
ext. citations

7.8
avg, IF

5.07
L-index

#	Paper	IF	Citations
64	Valorisation of microalgae residues after lipid extraction: Pyrolysis characteristics for biofuel production. <i>Biochemical Engineering Journal</i> , 2022 , 179, 108330	4.2	11
63	Revealing the link between evolution of electron transfer capacity of humic acid and key enzyme activities during anaerobic digestion. <i>Journal of Environmental Management</i> , 2022 , 301, 113914	7.9	2
62	Utilization of coal fly ash waste for effective recapture of phosphorus from waters. <i>Chemosphere</i> , 2022 , 287, 132431	8.4	4
61	Cultivation of microalgae in adjusted wastewater to enhance biofuel production and reduce environmental impact: Pyrolysis performances and life cycle assessment. <i>Journal of Cleaner Production</i> , 2022 , 355, 131768	10.3	9
60	Efficient arsenic removal by a bifunctional heterogeneous catalyst through simultaneous hydrogen peroxide (H ₂ O ₂) catalytic oxidation and adsorption. <i>Journal of Cleaner Production</i> , 2021 , 325, 129329	10.3	2
59	An integrated approach using ozone nanobubble and cyclodextrin inclusion complexation to enhance the removal of micropollutants. <i>Water Research</i> , 2021 , 196, 117039	12.5	8
58	Dynamic evolution of humic acids during anaerobic digestion: Exploring an effective auxiliary agent for heavy metal remediation. <i>Bioresource Technology</i> , 2021 , 320, 124331	11	6
57	Towards high-quality biodiesel production from microalgae using original and anaerobically-digested livestock wastewater. <i>Chemosphere</i> , 2021 , 273, 128578	8.4	45
56	Mechanisms of genuine humic acid evolution and its dynamic interaction with methane production in anaerobic digestion processes. <i>Chemical Engineering Journal</i> , 2021 , 408, 127322	14.7	7
55	Hydrothermal carbonization of microalgae for phosphorus recycling from wastewater to crop-soil systems as slow-release fertilizers. <i>Journal of Cleaner Production</i> , 2021 , 283, 124627	10.3	12
54	Mitigating antibiotic pollution using cyanobacteria: Removal efficiency, pathways and metabolism. <i>Water Research</i> , 2021 , 190, 116735	12.5	14
53	Aquatic Macrophytes in Morphological and Physiological Responses to the Nanobubble Technology Application for Water Restoration. <i>ACS ES&T Water</i> , 2021 , 1, 376-387		6
52	Exploring a multifunctional geoengineering material for eutrophication remediation: Simultaneously control internal nutrient load and tackle hypoxia. <i>Chemical Engineering Journal</i> , 2021 , 406, 127206	14.7	6
51	Bactericidal efficiency and photochemical mechanisms of micro/nano bubble-enhanced visible light photocatalytic water disinfection. <i>Water Research</i> , 2021 , 203, 117531	12.5	7
50	Reducing arsenic toxicity using the interfacial oxygen nanobubble technology for sediment remediation. <i>Water Research</i> , 2021 , 205, 117657	12.5	5
49	Molecular-level investigations of effective biogenic phosphorus adsorption by a lanthanum/aluminum-hydroxide composite. <i>Science of the Total Environment</i> , 2020 , 725, 138424	10.2	14
48	Synergistic Recapturing of External and Internal Phosphorus for In Situ Eutrophication Mitigation. <i>Water (Switzerland)</i> , 2020 , 12, 2	3	4

47	Sustainable Chromium (VI) Removal from Contaminated Groundwater Using Nano-Magnetite-Modified Biochar via Rapid Microwave Synthesis. <i>Molecules</i> , 2020 , 26,	4.8	10
46	Highly efficient and irreversible removal of cadmium through the formation of a solid solution. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121461	12.8	7
45	Superior arsenate adsorption and comprehensive investigation of adsorption mechanism on novel Mn-doped La ₂ O ₂ CO ₃ composites. <i>Chemical Engineering Journal</i> , 2020 , 391, 123623	14.7	13
44	Enhancement of Tomato Plant Growth and Productivity in Organic Farming by Agri-Nanotechnology Using Nanobubble Oxygenation. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 10823-10831	5.7	18
43	Enhancement of cadmium removal by oxygen-doped carbon nitride with molybdenum and sulphur hybridization. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 606-615	9.3	11
42	Amphoteric starch-based bicomponent modified soil for mitigation of harmful algal blooms (HABs) with broad salinity tolerance: Flocculation, algal regrowth, and ecological safety. <i>Water Research</i> , 2019 , 165, 115005	12.5	21
41	Nanobubble Technology in Environmental Engineering: Revolutionization Potential and Challenges. <i>Environmental Science & Technology</i> , 2019 , 53, 7175-7176	10.3	31
40	Comment on "A Pilot-Scale Field Study: In Situ Treatment of PCB-Impacted Sediments with Bioamended Activated Carbon". <i>Environmental Science & Technology</i> , 2019 , 53, 6103	10.3	
39	Optimisation of bioscrubber systems to simultaneously remove methane and purify wastewater from intensive pig farms. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 15847-15856	5.1	5
38	Modified Local Soil (MLS) Technology for Harmful Algal Bloom Control, Sediment Remediation, and Ecological Restoration. <i>Water (Switzerland)</i> , 2019 , 11, 1123	3	16
37	Microbial community metabolic profiles in saturated constructed wetlands treating iohexol and ibuprofen. <i>Science of the Total Environment</i> , 2019 , 651, 1926-1934	10.2	17
36	The intensified constructed wetlands are promising for treatment of ammonia stripped effluent: Nitrogen transformations and removal pathways. <i>Environmental Pollution</i> , 2018 , 236, 273-282	9.3	26
35	Rethinking Intensification of Constructed Wetlands as a Green Eco-Technology for Wastewater Treatment. <i>Environmental Science & Technology</i> , 2018 , 52, 1693-1694	10.3	47
34	Impacts of design configuration and plants on the functionality of the microbial community of mesocosm-scale constructed wetlands treating ibuprofen. <i>Water Research</i> , 2018 , 131, 228-238	12.5	38
33	Removal of the pesticide tebuconazole in constructed wetlands: Design comparison, influencing factors and modelling. <i>Environmental Pollution</i> , 2018 , 233, 71-80	9.3	38
32	Methodologies for the analysis of pesticides and pharmaceuticals in sediments and plant tissue. <i>Analytical Methods</i> , 2018 , 10, 3791-3803	3.2	1
31	Effect of flocculation pre-treatment on membrane nutrient recovery of digested chicken slurry: Mitigating suspended solids and retaining nutrients. <i>Chemical Engineering Journal</i> , 2018 , 352, 855-862	14.7	15
30	Combating hypoxia/anoxia at sediment-water interfaces: A preliminary study of oxygen nanobubble modified clay materials. <i>Science of the Total Environment</i> , 2018 , 637-638, 550-560	10.2	44

29	Effect of multilayer substrate configuration in horizontal subsurface flow constructed wetlands: assessment of treatment performance, biofilm development, and solids accumulation. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 1883-1891	5.1	10
28	Quantification of Oxygen Nanobubbles in Particulate Matters and Potential Applications in Remediation of Anaerobic Environment. <i>ACS Omega</i> , 2018 , 3, 10624-10630	3.9	25
27	Switching Harmful Algal Blooms to Submerged Macrophytes in Shallow Waters Using Geo-engineering Methods: Evidence from a N Tracing Study. <i>Environmental Science & Technology</i> , 2018 , 52, 11778-11785	10.3	5
26	New insights into the effects of support matrix on the removal of organic micro-pollutants and the microbial community in constructed wetlands. <i>Environmental Pollution</i> , 2018 , 240, 699-708	9.3	23
25	Ibuprofen and iohexol removal in saturated constructed wetland mesocosms. <i>Ecological Engineering</i> , 2017 , 98, 394-402	3.9	32
24	Enantioselective uptake, translocation and degradation of the chiral pesticides tebuconazole and imazalil by <i>Phragmites australis</i> . <i>Environmental Pollution</i> , 2017 , 229, 362-370	9.3	46
23	Treatment of anaerobic digested effluent in biochar-packed vertical flow constructed wetland columns: Role of media and tidal operation. <i>Science of the Total Environment</i> , 2017 , 592, 197-205	10.2	122
22	Functionality of microbial communities in constructed wetlands used for pesticide remediation: Influence of system design and sampling strategy. <i>Water Research</i> , 2017 , 110, 241-251	12.5	53
21	Treatment of anaerobic digestate supernatant in microbial fuel cell coupled constructed wetlands: Evaluation of nitrogen removal, electricity generation, and bacterial community response. <i>Science of the Total Environment</i> , 2017 , 580, 339-346	10.2	33
20	Removal of organic matter, nitrogen and faecal indicators from diluted anaerobically digested slurry using tidal flow constructed wetlands. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 5486-5496	5.1	17
19	Campus Sewage Treatment in Multilayer Horizontal Subsurface Flow Constructed Wetlands: Nitrogen Removal and Microbial Community Distribution. <i>Clean - Soil, Air, Water</i> , 2017 , 45, 1700254	1.6	9
18	Effects of constructed wetland design on ibuprofen removal - A mesocosm scale study. <i>Science of the Total Environment</i> , 2017 , 609, 38-45	10.2	48
17	Stabilization of Preliminary Anaerobically Digested Slurry in Post-Storage: Dynamics of Chemical Characteristics and Hygienic Quality. <i>Water, Air, and Soil Pollution</i> , 2017 , 228, 1	2.6	7
16	Liquid digestate recycled utilization in anaerobic digestion of pig manure: Effect on methane production, system stability and heavy metal mobilization. <i>Energy</i> , 2017 , 141, 1695-1704	7.9	24
15	Phosphate recovery from liquid fraction of anaerobic digestate using four slow pyrolyzed biochars: Dynamics of adsorption, desorption and regeneration. <i>Journal of Environmental Management</i> , 2017 , 201, 260-267	7.9	68
14	Microbial community metabolic function in constructed wetland mesocosms treating the pesticides imazalil and tebuconazole. <i>Ecological Engineering</i> , 2017 , 98, 378-387	3.9	24
13	Removal of the pesticides imazalil and tebuconazole in saturated constructed wetland mesocosms. <i>Water Research</i> , 2016 , 91, 126-36	12.5	56
12	Phytoremediation of imazalil and tebuconazole by four emergent wetland plant species in hydroponic medium. <i>Chemosphere</i> , 2016 , 148, 459-66	8.4	55

11	Removal of the pharmaceuticals ibuprofen and iohexol by four wetland plant species in hydroponic culture: plant uptake and microbial degradation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2890-8	5.1	45
10	Treatment of Alkaline Stripped Effluent in Aerated Constructed Wetlands: Feasibility Evaluation and Performance Enhancement. <i>Water (Switzerland)</i> , 2016 , 8, 386	3	10
9	Multilayer Substrate Configuration Enhances Removal Efficiency of Pollutants in Constructed Wetlands. <i>Water (Switzerland)</i> , 2016 , 8, 556	3	6
8	Microbial density and diversity in constructed wetland systems and the relation to pollutant removal efficiency. <i>Water Science and Technology</i> , 2016 , 73, 679-86	2.2	12
7	Design and performance evaluation of a highly loaded aerated treatment wetland managing effluents from a food processing industry in Denmark. <i>Water Practice and Technology</i> , 2015 , 10, 644-651 ^{0.9}		4
6	Dynamics of nitrobenzene degradation and interactions with nitrogen transformations in laboratory-scale constructed wetlands. <i>Bioresource Technology</i> , 2013 , 133, 529-36	11	31
5	Comparative Laboratory-Scale Study of Resorcinol and Nitrogen Removal in Different Treatment Wetlands. <i>Advanced Materials Research</i> , 2013 , 726-731, 1643-1653	0.5	
4	2012,		3
3	Effect of Nitrate on Sulphur Transformations Depending on Carbon Load in Laboratory-Scale Wetlands Treating Artificial Sewage. <i>Advanced Materials Research</i> , 2012 , 518-523, 1902-1912	0.5	4
2	Performance of Lab-Scale Tidal Flow Constructed Wetlands Treating Livestock Wastewater. <i>Advanced Materials Research</i> , 2012 , 518-523, 2631-2639	0.5	1
1	An Alternative to Ventilators to Support Critical COVID-19 Patients		2