

# Shubiao Wu

## List of Publications by Citations

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**Version:** 2024-04-27

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99  
papers

4,128  
citations

36  
h-index

63  
g-index

103  
ext. papers

5,141  
ext. citations

7.9  
avg, IF

6.1  
L-index

#	Paper	IF	Citations
99	Development of constructed wetlands in performance intensifications for wastewater treatment: a nitrogen and organic matter targeted review. <i>Water Research</i> , <b>2014</b> , 57, 40-55	12.5	391
98	Evaluation of slow pyrolyzed wood and rice husks biochar for adsorption of ammonium nitrogen from piggery manure anaerobic digestate slurry. <i>Science of the Total Environment</i> , <b>2015</b> , 505, 102-12	10.2	321
97	Batch anaerobic co-digestion of pig manure with dewatered sewage sludge under mesophilic conditions. <i>Applied Energy</i> , <b>2014</b> , 128, 175-183	10.7	178
96	Phosphate removal from aqueous solution using iron oxides: Adsorption, desorption and regeneration characteristics. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 528, 145-155	9.3	144
95	Sanitation in constructed wetlands: A review on the removal of human pathogens and fecal indicators. <i>Science of the Total Environment</i> , <b>2016</b> , 541, 8-22	10.2	137
94	Treatment of industrial effluents in constructed wetlands: challenges, operational strategies and overall performance. <i>Environmental Pollution</i> , <b>2015</b> , 201, 107-20	9.3	133
93	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> , <b>2017</b> , 592, 197-205	10.2	122
92	Humic substances developed during organic waste composting: Formation mechanisms, structural properties, and agronomic functions. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 501-510	10.2	114
91	Performance and kinetic evaluation of semi-continuously fed anaerobic digesters treating food waste: role of trace elements. <i>Bioresource Technology</i> , <b>2015</b> , 178, 297-305	11	103
90	Evaluation of a lab-scale tidal flow constructed wetland performance: Oxygen transfer capacity, organic matter and ammonium removal. <i>Ecological Engineering</i> , <b>2011</b> , 37, 1789-1795	3.9	101
89	Performance of integrated household constructed wetland for domestic wastewater treatment in rural areas. <i>Ecological Engineering</i> , <b>2011</b> , 37, 948-954	3.9	100
88	Phosphorus recovery from biogas fermentation liquid by Ca-Mg loaded biochar. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 29, 106-14	6.4	97
87	Sulphur transformations in constructed wetlands for wastewater treatment: A review. <i>Ecological Engineering</i> , <b>2013</b> , 52, 278-289	3.9	94
86	Role of Nutrient-Enriched Biochar as a Soil Amendment during Maize Growth: Exploring Practical Alternatives to Recycle Agricultural Residuals and to Reduce Chemical Fertilizer Demand. <i>Sustainability</i> , <b>2019</b> , 11, 3211	3.6	78
85	Effects of organic loading rate and effluent recirculation on the performance of two-stage anaerobic digestion of vegetable waste. <i>Bioresource Technology</i> , <b>2013</b> , 146, 556-561	11	75
84	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> , <b>2017</b> , 201, 260-267	7.9	68
83	Interactions of high-rate nitrate reduction and heavy metal mitigation in iron-carbon-based constructed wetlands for purifying contaminated groundwater. <i>Water Research</i> , <b>2020</b> , 169, 115285	12.5	66

82	The performance efficiency of bioaugmentation to prevent anaerobic digestion failure from ammonia and propionate inhibition. <i>Bioresource Technology</i> , <b>2017</b> , 231, 94-100	11	64
81	Probing the efficiency of magnetically modified biomass-derived biochar for effective phosphate removal. <i>Journal of Environmental Management</i> , <b>2020</b> , 253, 109730	7.9	60
80	Synergistic effect of alkaline pretreatment and Fe dosing on batch anaerobic digestion of maize straw. <i>Applied Energy</i> , <b>2015</b> , 158, 55-64	10.7	58
79	How substrate influences nitrogen transformations in tidal flow constructed wetlands treating high ammonium wastewater?. <i>Ecological Engineering</i> , <b>2014</b> , 73, 478-486	3.9	55
78	Anaerobic digestion characteristics of pig manures depending on various growth stages and initial substrate concentrations in a scaled pig farm in Southern China. <i>Bioresource Technology</i> , <b>2014</b> , 156, 63-9 <sup>11</sup>		55
77	Intensified nitrogen and phosphorus removal in a novel electrolysis-integrated tidal flow constructed wetland system. <i>Water Research</i> , <b>2014</b> , 59, 37-45	12.5	53
76	Nutrient recovery from anaerobically digested chicken slurry via struvite: Performance optimization and interactions with heavy metals and pathogens. <i>Science of the Total Environment</i> , <b>2018</b> , 635, 1-9	10.2	50
75	Critical Review: Biogeochemical Networking of Iron in Constructed Wetlands for Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 7930-7944	10.3	48
74	Rethinking Intensification of Constructed Wetlands as a Green Eco-Technology for Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1693-1694	10.3	47
73	Performance and kinetic evaluation of a semi-continuously fed anaerobic digester treating food waste: effect of trace elements on the digester recovery and stability. <i>Chemosphere</i> , <b>2014</b> , 117, 477-85	8.4	47
72	Integrated approach to sustain biogas production in anaerobic digestion of chicken manure under recycled utilization of liquid digestate: Dynamics of ammonium accumulation and mitigation control. <i>Bioresource Technology</i> , <b>2016</b> , 205, 75-81	11	45
71	Dynamics of organic matter, nitrogen and phosphorus removal and their interactions in a tidal operated constructed wetland. <i>Journal of Environmental Management</i> , <b>2015</b> , 151, 310-6	7.9	45
70	How the novel integration of electrolysis in tidal flow constructed wetlands intensifies nutrient removal and odor control. <i>Bioresource Technology</i> , <b>2014</b> , 169, 605-613	11	44
69	Fungal pretreatment by <i>Phanerochaete chrysosporium</i> for enhancement of biogas production from corn stover silage. <i>Applied Biochemistry and Biotechnology</i> , <b>2014</b> , 174, 1907-18	3.2	44
68	Formation of struvite from agricultural wastewaters and its reuse on farmlands: Status and hindrances to closing the nutrient loop. <i>Journal of Environmental Management</i> , <b>2019</b> , 230, 1-13	7.9	43
67	Evaluation of ammonium adsorption in biochar-fixed beds for treatment of anaerobically digested swine slurry: Experimental optimization and modeling. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 1095-104	10.2	42
66	Application of machine learning methods for the prediction of organic solid waste treatment and recycling processes: A review. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124114	11	39
65	Evaluation of batch anaerobic co-digestion of palm pressed fiber and cattle manure under mesophilic conditions. <i>Waste Management</i> , <b>2014</b> , 34, 1984-91	8.6	37

64	Optimization and evaluation of an air-recirculated stripping for ammonia removal from the anaerobic digestate of pig manure. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 94, 350-357	5.5	36
63	Performance of two-stage vegetable waste anaerobic digestion depending on varying recirculation rates. <i>Bioresource Technology</i> , <b>2014</b> , 162, 266-72	11	35
62	Performance enhancement of leaf vegetable waste in two-stage anaerobic systems under high organic loading rate: Role of recirculation and hydraulic retention time. <i>Applied Energy</i> , <b>2015</b> , 147, 279-286	10.7	34
61	Dynamics of nitrogen transformation depending on different operational strategies in laboratory-scale tidal flow constructed wetlands. <i>Science of the Total Environment</i> , <b>2014</b> , 487, 49-56	10.2	34
60	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> , <b>2017</b> , 580, 339-346	10.2	33
59	Microbial pretreatment of corn stovers by solid-state cultivation of <i>Phanerochaete chrysosporium</i> for biogas production. <i>Applied Biochemistry and Biotechnology</i> , <b>2014</b> , 172, 1365-76	3.2	33
58	Sulfur transformations in pilot-scale constructed wetland treating high sulfate-containing contaminated groundwater: a stable isotope assessment. <i>Water Research</i> , <b>2011</b> , 45, 6688-98	12.5	33
57	Nanobubble Technology in Environmental Engineering: Revolutionization Potential and Challenges. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 7175-7176	10.3	31
56	Dynamics of nitrobenzene degradation and interactions with nitrogen transformations in laboratory-scale constructed wetlands. <i>Bioresource Technology</i> , <b>2013</b> , 133, 529-36	11	31
55	Exploring Utilization of Recycled Agricultural Biomass in Constructed Wetlands: Characterization of the Driving Force for High-Rate Nitrogen Removal. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 1258-1268	10.3	28
54	Nitrogen removal responses to biochar addition in intermittent-aerated subsurface flow constructed wetland microcosms: Enhancing role and mechanism. <i>Ecological Engineering</i> , <b>2019</b> , 128, 57-65	3.9	27
53	Monitoring Volatile Fatty Acids and Carbonate Alkalinity in Anaerobic Digestion: Titration Methodologies. <i>Chemical Engineering and Technology</i> , <b>2016</b> , 39, 599-610	2	27
52	The intensified constructed wetlands are promising for treatment of ammonia stripped effluent: Nitrogen transformations and removal pathways. <i>Environmental Pollution</i> , <b>2018</b> , 236, 273-282	9.3	26
51	Liquid digestate recycled utilization in anaerobic digestion of pig manure: Effect on methane production, system stability and heavy metal mobilization. <i>Energy</i> , <b>2017</b> , 141, 1695-1704	7.9	24
50	Effect of vegetation in pilot-scale horizontal subsurface flow constructed wetlands treating sulphate rich groundwater contaminated with a low and high chlorinated hydrocarbon. <i>Chemosphere</i> , <b>2012</b> , 89, 724-31	8.4	24
49	Innovative operation of microbial fuel cell-based biosensor for selective monitoring of acetate during anaerobic digestion. <i>Science of the Total Environment</i> , <b>2019</b> , 655, 1439-1447	10.2	24
48	Exploring stability indicators for efficient monitoring of anaerobic digestion of pig manure under perturbations. <i>Waste Management</i> , <b>2019</b> , 91, 139-146	8.6	23
47	Biochar seeding promotes struvite formation, but accelerates heavy metal accumulation. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 623-632	10.2	23

46	Nitrogen removal in response to the varying C/N ratios in subsurface flow constructed wetland microcosms with biochar addition. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 3382-3391	5.1	22
45	Development and validation of a simplified titration method for monitoring volatile fatty acids in anaerobic digestion. <i>Waste Management</i> , <b>2017</b> , 67, 43-50	8.6	21
44	Response of a tidal operated constructed wetland to sudden organic and ammonium loading changes in treating high strength artificial wastewater. <i>Ecological Engineering</i> , <b>2015</b> , 82, 643-648	3.9	19
43	Effect of Oil Content on Biogas Production, Process Performance and Stability of Food Waste Anaerobic Digestion. <i>Waste and Biomass Valorization</i> , <b>2018</b> , 9, 2295-2306	3.2	19
42	Dynamics of Fe(II), sulphur and phosphate in pilot-scale constructed wetlands treating a sulphate-rich chlorinated hydrocarbon contaminated groundwater. <i>Water Research</i> , <b>2012</b> , 46, 1923-32	12.5	18
41	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> , <b>2017</b> , 24, 5486-5496	5.1	17
40	Incorporating Biochar into Wastewater Eco-treatment Systems: Popularity, Reality, and Complexity. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3345-3346	10.3	17
39	Co-digestion of <i>Laminaria digitata</i> with cattle manure: A unimodel simulation study of both batch and continuous experiments. <i>Bioresource Technology</i> , <b>2019</b> , 276, 361-368	11	17
38	Microbial community responses to agricultural biomass addition in aerated constructed wetlands treating low carbon wastewater. <i>Journal of Environmental Management</i> , <b>2020</b> , 270, 110912	7.9	16
37	The Potential of Bioelectrochemical Sensor for Monitoring of Acetate During Anaerobic Digestion: Focusing on Novel Reactor Design. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 3357	5.7	15
36	Pathways of nitrobenzene degradation in horizontal subsurface flow constructed wetlands: Effect of intermittent aeration and glucose addition. <i>Journal of Environmental Management</i> , <b>2016</b> , 166, 38-44	7.9	15
35	Effect of flocculation pre-treatment on membrane nutrient recovery of digested chicken slurry: Mitigating suspended solids and retaining nutrients. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 855-862	14.7	15
34	Application of H <sub>2</sub> O <sub>2</sub> to optimize ammonium removal from domestic wastewater. <i>Separation and Purification Technology</i> , <b>2017</b> , 173, 357-363	8.3	15
33	Synthesis of humic-like acid from biomass pretreatment liquor: Quantitative appraisal of electron transferring capacity and metal-binding potential. <i>Journal of Cleaner Production</i> , <b>2020</b> , 255, 120243	10.3	15
32	Impact of biochar addition on three-dimensional structural changes in aggregates associated with humus during swine manure composting. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124380	10.3	15
31	Treatment of pig manure liquid digestate in horizontal flow constructed wetlands: Effect of aeration. <i>Engineering in Life Sciences</i> , <b>2016</b> , 16, 263-271	3.4	13
30	Impact of engineered nanoparticles on microbial transformations of carbon, nitrogen, and phosphorus in wastewater treatment processes - A review. <i>Science of the Total Environment</i> , <b>2019</b> , 660, 1144-1154	10.2	13
29	Optimization of high-rate TN removal in a novel constructed wetland integrated with microelectrolysis system treating high-strength digestate supernatant. <i>Journal of Environmental Management</i> , <b>2016</b> , 178, 42-51	7.9	12

28	Treatment of Alkaline Stripped Effluent in Aerated Constructed Wetlands: Feasibility Evaluation and Performance Enhancement. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 386	3	10
27	A <i>Lymnaea stagnalis</i> Embryo Test for Toxicity Bioindication of Acidification and Ammonia Pollution in Water. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 295	3	9
26	Seasonal and daily emissions of methane and carbon dioxide from a pig wastewater storage system and the use of artificial vermiculite crusts. <i>Biosystems Engineering</i> , <b>2015</b> , 131, 15-22	4.8	8
25	New insights into interactions of organic substances in poultry slurry with struvite formation: An overestimated concern?. <i>Science of the Total Environment</i> , <b>2021</b> , 751, 141789	10.2	8
24	Exploring low-cost practical antifoaming strategies in the ammonia stripping process of anaerobic digested slurry. <i>Chemical Engineering Journal</i> , <b>2018</b> , 344, 228-235	14.7	7
23	Stabilization of Preliminary Anaerobically Digested Slurry in Post-Storage: Dynamics of Chemical Characteristics and Hygienic Quality. <i>Water, Air, and Soil Pollution</i> , <b>2017</b> , 228, 1	2.6	7
22	Mechanisms of genuine humic acid evolution and its dynamic interaction with methane production in anaerobic digestion processes. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127322	14.7	7
21	Probing changes in humus chemical characteristics in response to biochar addition and varying bulking agents during composting: A holistic multi-evidence-based approach. <i>Journal of Environmental Management</i> , <b>2021</b> , 300, 113736	7.9	7
20	Performance of two laboratory-scale horizontal wetlands under varying influent loads treating artificial sewage. <i>Engineering in Life Sciences</i> , <b>2012</b> , 12, 178-187	3.4	6
19	Dynamic evolution of humic acids during anaerobic digestion: Exploring an effective auxiliary agent for heavy metal remediation. <i>Bioresource Technology</i> , <b>2021</b> , 320, 124331	11	6
18	Innovative air-cathode bioelectrochemical sensor for monitoring of total volatile fatty acids during anaerobic digestion. <i>Chemosphere</i> , <b>2021</b> , 273, 129660	8.4	5
17	Effect of Nitrate on Sulphur Transformations Depending on Carbon Load in Laboratory-Scale Wetlands Treating Artificial Sewage. <i>Advanced Materials Research</i> , <b>2012</b> , 518-523, 1902-1912	0.5	4
16	<b>2012</b> ,		3
15	Response of removal rates to various organic carbon and ammonium loads in laboratory-scale constructed wetlands treating artificial wastewater. <i>Water Environment Research</i> , <b>2013</b> , 85, 44-53	2.8	3
14	Immobilization pathways of heavy metals in composting: Interactions of microbial community and functional gene under varying C/N ratios and bulking agents.. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 426, 128103	12.8	3
13	INFLUENCE OF NITRATE LOAD ON SULFUR TRANSFORMATIONS IN THE RHIZOSPHERE OF <i>Juncus effusus</i> IN LABORATORY-SCALE CONSTRUCTED WETLANDS TREATING ARTIFICIAL DOMESTIC WASTEWATER. <i>Environmental Engineering and Management Journal</i> , <b>2013</b> , 12, 565-573	0.6	3
12	Critical Review: Biogeochemical Networking of Iron, Is It Important in Constructed Wetlands for Wastewater Treatment?. <i>Environmental Science &amp; Technology</i> , <b>2019</b> ,	10.3	2
11	Use of Solid Digestate as a Growing Medium for Tomato Seedlings. <i>Advanced Materials Research</i> , <b>2013</b> , 726-731, 3001-3006	0.5	2

10	Ammonium Nitrogen Removal from Wastewater by Biochar Adsorption. <i>Advanced Materials Research</i> , <b>2013</b> , 726-731, 1679-1682	0.5	2
9	Can we use mine waste as substrate in constructed wetlands to intensify nutrient removal? A critical assessment of key removal mechanisms and long-term environmental risks.. <i>Water Research</i> , <b>2021</b> , 210, 118009	12.5	2
8	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> , <b>2022</b> , 301, 113914	7.9	2
7	Performance of Lab-Scale Tidal Flow Constructed Wetlands Treating Livestock Wastewater. <i>Advanced Materials Research</i> , <b>2012</b> , 518-523, 2631-2639	0.5	1
6	Exploring Bioactive Compounds in Anaerobically Digested Slurry: Extraction, Characterization, and Assessment of Antifungal Activity. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 1863-1872	3.2	1
5	Long-term performance of three mesophilic anaerobic digesters to convert animal and agro-industrial wastes into organic fertilizer.. <i>Journal of Cleaner Production</i> , <b>2021</b> , 307, 1-8	10.3	1
4	Quantitative characterization and effective inactivation of biological hazards in struvite recovered from digested poultry slurry. <i>Water Research</i> , <b>2021</b> , 204, 117659	12.5	1
3	Nutrients and Plant Hormones in Anaerobic Digestates <b>2020</b> , 231-246		
2	Comparison of One-Phase and Two-Phase Anaerobic Digestion of Swine Manure. <i>Advanced Materials Research</i> , <b>2013</b> , 726-731, 2875-2880	0.5	
1	Comparative Laboratory-Scale Study of Resorcinol and Nitrogen Removal in Different Treatment Wetlands. <i>Advanced Materials Research</i> , <b>2013</b> , 726-731, 1643-1653	0.5	