

Shuang Liang

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.

66

papers

5,153

citations

27

h-index

67

g-index

67

ext. papers

5,952

ext. citations

7.9

avg, IF

5.66

L-index

#	Paper	IF	Citations
66	Priming effects of root exudates on the source-sink stability of benzo[a]pyrene in wetlands: A microcosm experiment.. <i>Journal of Hazardous Materials</i> , 2022 , 429, 128364	12.8	1
65	A low-cost approach for soil moisture prediction using multi-sensor data and machine learning algorithm.. <i>Science of the Total Environment</i> , 2022 , 155066	10.2	1
64	Environmental impacts of antibiotics addition to algal-bacterial-based aquaponic system.. <i>Applied Microbiology and Biotechnology</i> , 2022 , 1	5.7	
63	Towards a Better Understanding of Long-Term Self-Forming Dynamic Membrane Bioreactor (SFDMBR) Performance: Effect of Aeration Intensity. <i>Water (Switzerland)</i> , 2022 , 14, 1561	3	
62	Effect of humic acid on phenanthrene removal by constructed wetlands using birnessite as a substrate. <i>RSC Advances</i> , 2022 , 12, 15231-15239	3.7	0
61	Novel magnetic coupling constructed wetland for nitrogen removal: Enhancing performance and responses of plants and microbial communities. <i>Science of the Total Environment</i> , 2021 , 152040	10.2	1
60	Effects and mechanisms of constructed wetlands with different substrates on NO emission in wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
59	Enhanced phosphorus removal of constructed wetland through plant growth-promoting rhizobacteria (PGPR) addition. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 52124-52132	5.1	3
58	Mn oxides changed nitrogen removal process in constructed wetlands with a microbial electrolysis cell. <i>Science of the Total Environment</i> , 2021 , 770, 144761	10.2	6
57	Optimization of nutrient removal performance of magnesia-containing constructed wetlands: a microcosm study. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 58583-58591	5.1	
56	Inorganic particle accumulation promotes nutrient removal of vertical flow constructed wetlands: Mechanisms and implications. <i>Science of the Total Environment</i> , 2021 , 778, 146203	10.2	2
55	Improving sulfonamide antibiotics removal from swine wastewater by supplying a new pomelo peel derived biochar in an anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2021 , 319, 124160	11	26
54	A new insight on the effects of iron oxides and dissimilated metal-reducing bacteria on CH ₄ emissions in constructed wetland matrix systems. <i>Bioresource Technology</i> , 2021 , 320, 124296	11	10
53	A review on the role of plant in pharmaceuticals and personal care products (PPCPs) removal in constructed wetlands. <i>Science of the Total Environment</i> , 2021 , 780, 146637	10.2	14
52	Planifilum fulgidum Is the Dominant Functional Microorganism in Compost Containing Spent Mushroom Substrate. <i>Sustainability</i> , 2021 , 13, 10002	3.6	0
51	Comprehensive evaluation of manganese oxides and iron oxides as metal substrate materials for constructed wetlands from the perspective of water quality and greenhouse effect. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 221, 112451	7	6
50	Adsorption of phenanthrene from aqueous solutions by biochar derived from an ammoniation-hydrothermal method. <i>Science of the Total Environment</i> , 2020 , 733, 139267	10.2	12

49	Performance of microbial fuel cell for treating swine wastewater containing sulfonamide antibiotics. <i>Bioresource Technology</i> , 2020 , 311, 123588	11	43
48	Removal pathways of benzofluoranthene in a constructed wetland amended with metallic ions embedded carbon. <i>Bioresource Technology</i> , 2020 , 311, 123481	11	16
47	Intensive removal of PAHs in constructed wetland filled with copper biochar. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 205, 111028	7	10
46	Detection of Hg(II) in adsorption experiment by a lateral flow biosensor based on streptavidin-biotinylated DNA probes modified gold nanoparticles and smartphone reader. <i>Environmental Pollution</i> , 2020 , 266, 115389	9.3	7
45	Preparation and evaluation of wetland plant-based biochar for nitrogen removal enhancement in surface flow constructed wetlands. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 13929-13937	5.1	36
44	Secondary effluent purification by a large-scale multi-stage surface-flow constructed wetland: A case study in northern China. <i>Bioresource Technology</i> , 2018 , 249, 1092-1096	11	22
43	Effect of hydraulic retention time on the performance of a hybrid moving bed biofilm reactor-membrane bioreactor system for micropollutants removal from municipal wastewater. <i>Bioresource Technology</i> , 2018 , 247, 1228-1232	11	49
42	Simultaneous improvement of waste gas purification and nitrogen removal using a novel aerated vertical flow constructed wetland. <i>Water Research</i> , 2018 , 130, 79-87	12.5	44
41	Quantitative Analysis of Membrane Fouling Mechanisms Involved in Microfiltration of Humic Acid-Protein Mixtures at Different Solution Conditions. <i>Water (Switzerland)</i> , 2018 , 10, 1306	3	11
40	Microbial nitrogen removal of ammonia wastewater in poly (butylenes succinate)-based constructed wetland: effect of dissolved oxygen. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9389-9398	5.7	15
39	Dynamic analysis of self-forming dynamic membrane (SFDM) filtration in submerged anaerobic bioreactor: Performance, characteristic, and mechanism. <i>Bioresource Technology</i> , 2018 , 270, 383-390	11	19
38	Enhanced triclosan and nutrient removal performance in vertical up-flow constructed wetlands with manganese oxides. <i>Water Research</i> , 2018 , 143, 457-466	12.5	65
37	Application of a breakthrough biosorbent for removing heavy metals from synthetic and real wastewaters in a lab-scale continuous fixed-bed column. <i>Bioresource Technology</i> , 2017 , 229, 78-87	11	151
36	Bisection method for accurate modeling and simulation of fouling in hollow fiber membrane system. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 14346-14354	5.1	4
35	DOM-mediated membrane retention of fluoroquinolone as revealed by fluorescence quenching properties. <i>Scientific Reports</i> , 2017 , 7, 5372	4.9	4
34	Enhanced nutrient removal and mechanisms study in benthic fauna added surface-flow constructed wetlands: The role of Tubifex tubifex. <i>Bioresource Technology</i> , 2017 , 224, 157-165	11	29
33	Microbial community characteristics during simultaneous nitrification-denitrification process: effect of COD/TP ratio. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 2557-65	5.1	15
32	Purification ability and carbon dioxide flux from surface flow constructed wetlands treating sewage treatment plant effluent. <i>Bioresource Technology</i> , 2016 , 219, 768-772	11	28

31	Effect of photosynthetically elevated pH on performance of surface flow-constructed wetland planted with <i>Phragmites australis</i> . <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15524-31	5.1	17
30	Microbial abundance and community in subsurface flow constructed wetland microcosms: role of plant presence. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 4036-45	5.1	62
29	Removal mechanisms and plant species selection by bioaccumulative factors in surface flow constructed wetlands (CWs): In the case of triclosan. <i>Science of the Total Environment</i> , 2016 , 547, 9-16	10.2	23
28	Constructed Wetlands for Wastewater Treatment: Sustainability Revolution in Water Management 2016 , 337-373		1
27	Intensified organics and nitrogen removal in the intermittent-aerated constructed wetland using a novel sludge-ceramsite as substrate. <i>Bioresource Technology</i> , 2016 , 210, 101-7	11	61
26	Comparison of physicochemical properties of activated carbons derived from biomass wastes by H4P2O7 activation: adsorption of trimethoprim. <i>Desalination and Water Treatment</i> , 2016 , 57, 21957-21967		8
25	Optimizations on supply and distribution of dissolved oxygen in constructed wetlands: A review. <i>Bioresource Technology</i> , 2016 , 214, 797-805	11	117
24	Attempts to improve nitrogen utilization efficiency of aquaponics through nitrifies addition and filler gradation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 6671-9	5.1	24
23	Response of Bacteria and Fungi in Soil Microcosm under the Presence of Pesticide Endosulfan. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	14
22	Effect of plant harvesting on the performance of constructed wetlands during winter: radial oxygen loss and microbial characteristics. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 7476-84	5.1	38
21	Strategies and techniques to enhance constructed wetland performance for sustainable wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 14637-50	5.1	45
20	Decentralized domestic wastewater treatment using intermittently aerated vertical flow constructed wetlands: impact of influent strengths. <i>Bioresource Technology</i> , 2015 , 176, 163-8	11	117
19	A review on the sustainability of constructed wetlands for wastewater treatment: Design and operation. <i>Bioresource Technology</i> , 2015 , 175, 594-601	11	557
18	Bacterial community variation and microbial mechanism of triclosan (TCS) removal by constructed wetlands with different types of plants. <i>Science of the Total Environment</i> , 2015 , 505, 633-9	10.2	74
17	Perchlorate removal by autotrophic bacteria associated with zero-valent iron: effect of calcium ions. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 722-729	3.5	6
16	Composition of extracellular polymeric substances in a partial nitrification reactor treating high ammonia wastewater and nitrous oxide emission. <i>Bioresource Technology</i> , 2015 , 190, 474-9	11	29
15	Enhancement of anammox performance in a novel non-woven fabric membrane bioreactor (nMBR). <i>RSC Advances</i> , 2015 , 5, 86875-86884	3.7	18
14	Typical low cost biosorbents for adsorptive removal of specific organic pollutants from water. <i>Bioresource Technology</i> , 2015 , 182, 353-363	11	206

13	A review on the occurrence of micropollutants in the aquatic environment and their fate and removal during wastewater treatment. <i>Science of the Total Environment</i> , 2014 , 473-474, 619-41	10.2	2205
12	Enhanced nitrogen removal in constructed wetlands: effects of dissolved oxygen and step-feeding. <i>Bioresource Technology</i> , 2014 , 169, 395-402	11	93
11	A comparison study on membrane fouling in a sponge-submerged membrane bioreactor and a conventional membrane bioreactor. <i>Bioresource Technology</i> , 2014 , 165, 69-74	11	82
10	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. <i>Water Research</i> , 2014 , 53, 1-11	12.5	54
9	A laboratory study using maple leaves as a biosorbent for lead removal from aqueous solutions. <i>Water Quality Research Journal of Canada</i> , 2014 , 49, 195-209	1.7	9
8	Enhanced organics and nitrogen removal in batch-operated vertical flow constructed wetlands by combination of intermittent aeration and step feeding strategy. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2448-55	5.1	86
7	Nitrogen transformations and balance in constructed wetlands for slightly polluted river water treatment using different macrophytes. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 443-51	5.1	53
6	Role of microorganism growth phase in the accumulation and characteristics of biomacromolecules (BMM) in a membrane bioreactor. <i>RSC Advances</i> , 2012 , 2, 453-460	3.7	13
5	Morphological visualization, componential characterization and microbiological identification of membrane fouling in membrane bioreactors (MBRs). <i>Journal of Membrane Science</i> , 2010 , 361, 1-14	9.6	131
4	Effect of solution chemistry on the fouling potential of dissolved organic matter in membrane bioreactor systems. <i>Journal of Membrane Science</i> , 2008 , 310, 503-511	9.6	55
3	Soluble microbial products in membrane bioreactor operation: Behaviors, characteristics, and fouling potential. <i>Water Research</i> , 2007 , 41, 95-101	12.5	268
2	Retarded Transport and Accumulation of Soluble Microbial Products in a Membrane Bioreactor. <i>Journal of Environmental Engineering, ASCE</i> , 2007 , 133, 36-43	2	12
1	A modeling study of fouling development in membrane bioreactors for wastewater treatment. <i>Water Environment Research</i> , 2006 , 78, 857-63	2.8	24