Shuang Liang

List of Publications by Year
in descending order

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67	6,831	136950	106344
papers	citations	32 h-index	65 g-index

67	67	67	7778
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects and mechanisms of constructed wetlands with different substrates on N2O emission in wastewater treatment. Environmental Science and Pollution Research, 2022, 29, 19045-19053.	5.3	10
2	Novel magnetic coupling constructed wetland for nitrogen removal: Enhancing performance and responses of plants and microbial communities. Science of the Total Environment, 2022, 819, 152040.	8.0	15
3	Priming effects of root exudates on the source-sink stability of benzo[a]pyrene in wetlands: A microcosm experiment. Journal of Hazardous Materials, 2022, 429, 128364.	12.4	2
4	A low-cost approach for soil moisture prediction using multi-sensor data and machine learning algorithm. Science of the Total Environment, 2022, 833, 155066.	8.0	27
5	Environmental impacts of antibiotics addition to algal-bacterial-based aquaponic system. Applied Microbiology and Biotechnology, 2022, 106, 3777-3786.	3.6	1
6	Towards a Better Understanding of Long-Term Self-Forming Dynamic Membrane Bioreactor (SFDMBR) Performance: Effect of Aeration Intensity. Water (Switzerland), 2022, 14, 1561.	2.7	0
7	Effect of humic acid on phenanthrene removal by constructed wetlands using birnessite as a substrate. RSC Advances, 2022, 12, 15231-15239.	3.6	4
8	Iron ore or manganese ore filled constructed wetlands enhanced removal performance and changed removal process of nitrogen under sulfamethoxazole and trimethoprim stress. Environmental Science and Pollution Research, 2022, 29, 71766-71773.	5.3	6
9	Improving sulfonamide antibiotics removal from swine wastewater by supplying a new pomelo peel derived biochar in an anaerobic membrane bioreactor. Bioresource Technology, 2021, 319, 124160.	9.6	63
10	A new insight on the effects of iron oxides and dissimilated metal-reducing bacteria on CH4 emissions in constructed wetland matrix systems. Bioresource Technology, 2021, 320, 124296.	9.6	20
11	Enhanced phosphorus removal of constructed wetland through plant growth-promoting rhizobacteria (PGPR) addition. Environmental Science and Pollution Research, 2021, 28, 52124-52132.	5.3	14
12	Mn oxides changed nitrogen removal process in constructed wetlands with a microbial electrolysis cell. Science of the Total Environment, 2021, 770, 144761.	8.0	17
13	Optimization of nutrient removal performance of magnesia-containing constructed wetlands: a microcosm study. Environmental Science and Pollution Research, 2021, 28, 58583-58591.	5.3	1
14	Inorganic particle accumulation promotes nutrient removal of vertical flow constructed wetlands: Mechanisms and implications. Science of the Total Environment, 2021, 778, 146203.	8.0	6
15	A review on the role of plant in pharmaceuticals and personal care products (PPCPs) removal in constructed wetlands. Science of the Total Environment, 2021, 780, 146637.	8.0	65
16	Planifilum fulgidum Is the Dominant Functional Microorganism in Compost Containing Spent Mushroom Substrate. Sustainability, 2021, 13, 10002.	3.2	9
17	Comprehensive evaluation of manganese oxides and iron oxides as metal substrate materials for constructed wetlands from the perspective of water quality and greenhouse effect. Ecotoxicology and Environmental Safety, 2021, 221, 112451.	6.0	28
18	Intensive removal of PAHs in constructed wetland filled with copper biochar. Ecotoxicology and Environmental Safety, 2020, 205, 111028.	6.0	17

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19	Detection of Hg(II) in adsorption experiment by a lateral flow biosensor based on streptavidin-biotinylated DNA probes modified gold nanoparticles and smartphone reader. Environmental Pollution, 2020, 266, 115389.	7.5	15
20	Adsorption of phenanthrene from aqueous solutions by biochar derived from an ammoniation-hydrothermal method. Science of the Total Environment, 2020, 733, 139267.	8.0	35
21	Performance of microbial fuel cell for treating swine wastewater containing sulfonamide antibiotics. Bioresource Technology, 2020, 311, 123588.	9.6	67
22	Removal pathways of benzofluoranthene in a constructed wetland amended with metallic ions embedded carbon. Bioresource Technology, 2020, 311, 123481.	9.6	29
23	Preparation and evaluation of wetland plant-based biochar for nitrogen removal enhancement in surface flow constructed wetlands. Environmental Science and Pollution Research, 2018, 25, 13929-13937.	5.3	72
24	Secondary effluent purification by a large-scale multi-stage surface-flow constructed wetland: A case study in northern China. Bioresource Technology, 2018, 249, 1092-1096.	9.6	33
25	Effect of hydraulic retention time on the performance of a hybrid moving bed biofilm reactor-membrane bioreactor system for micropollutants removal from municipal wastewater. Bioresource Technology, 2018, 247, 1228-1232.	9.6	73
26	Simultaneous improvement of waste gas purification and nitrogen removal using a novel aerated vertical flow constructed wetland. Water Research, 2018, 130, 79-87.	11.3	63
27	Quantitative Analysis of Membrane Fouling Mechanisms Involved in Microfiltration of Humic Acidâ€“Protein Mixtures at Different Solution Conditions. Water (Switzerland), 2018, 10, 1306.	2.7	12
28	Microbial nitrogen removal of ammonia wastewater in poly (butylenes succinate)-based constructed wetland: effect of dissolved oxygen. Applied Microbiology and Biotechnology, 2018, 102, 9389-9398.	3.6	22
29	Dynamic analysis of self-forming dynamic membrane (SFDM) filtration in submerged anaerobic bioreactor: Performance, characteristic, and mechanism. Bioresource Technology, 2018, 270, 383-390.	9.6	26
30	Enhanced triclosan and nutrient removal performance in vertical up-flow constructed wetlands with manganese oxides. Water Research, 2018, 143, 457-466.	11.3	108
31	Application of a breakthrough biosorbent for removing heavy metals from synthetic and real wastewaters in a lab-scale continuous fixed-bed column. Bioresource Technology, 2017, 229, 78-87.	9.6	200
32	Bisection method for accurate modeling and simulation of fouling in hollow fiber membrane system. Environmental Science and Pollution Research, 2017, 24, 14346-14354.	5.3	4
33	DOM-mediated membrane retention of fluoroquinolone as revealed by fluorescence quenching properties. Scientific Reports, 2017, 7, 5372.	3.3	5
34	Enhanced nutrient removal and mechanisms study in benthic fauna added surface-flow constructed wetlands: The role of Tubifex tubifex. Bioresource Technology, 2017, 224, 157-165.	9.6	40
35	Constructed Wetlands for Wastewater Treatment: Sustainability Revolution in Water Management. , 2016, , 337-373.		1
36	Intensified organics and nitrogen removal in the intermittent-aerated constructed wetland using a novel sludge-ceramsite as substrate. Bioresource Technology, 2016, 210, 101-107.	9.6	83

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37	Comparison of physicochemical properties of activated carbons derived from biomass wastes by H₄P₂O₇activation: adsorption of trimethoprim. Desalination and Water Treatment, 2016, 57, 21957-21967.	1.0	9
38	Optimizations on supply and distribution of dissolved oxygen in constructed wetlands: A review. Bioresource Technology, 2016, 214, 797-805.	9.6	159
39	Attempts to improve nitrogen utilization efficiency of aquaponics through nitrifies addition and filler gradation. Environmental Science and Pollution Research, 2016, 23, 6671-6679.	5.3	38
40	Purification ability and carbon dioxide flux from surface flow constructed wetlands treating sewage treatment plant effluent. Bioresource Technology, 2016, 219, 768-772.	9.6	43
41	Effect of photosynthetically elevated pH on performance of surface flow-constructed wetland planted with Phragmites australis. Environmental Science and Pollution Research, 2016, 23, 15524-15531.	5.3	19
42	Microbial abundance and community in subsurface flow constructed wetland microcosms: role of plant presence. Environmental Science and Pollution Research, 2016, 23, 4036-4045.	5.3	80
43	Removal mechanisms and plant species selection by bioaccumulative factors in surface flow constructed wetlands (CWs): In the case of triclosan. Science of the Total Environment, 2016, 547, 9-16.	8.0	32
44	Microbial community characteristics during simultaneous nitrification-denitrification process: effect of COD/TP ratio. Environmental Science and Pollution Research, 2016, 23, 2557-2565.	5.3	17
45	Perchlorate removal by autotrophic bacteria associated with zeroâ€valent iron: effect of calcium ions. Journal of Chemical Technology and Biotechnology, 2015, 90, 722-729.	3.2	8
46	Composition of extracellular polymeric substances in a partial nitrification reactor treating high ammonia wastewater and nitrous oxide emission. Bioresource Technology, 2015, 190, 474-479.	9.6	37
47	Enhancement of anammox performance in a novel non-woven fabric membrane bioreactor (nMBR). RSC Advances, 2015, 5, 86875-86884.	3.6	20
48	Typical low cost biosorbents for adsorptive removal of specific organic pollutants from water. Bioresource Technology, 2015, 182, 353-363.	9.6	258
49	Response of Bacteria and Fungi in Soil Microcosm under the Presence of Pesticide Endosulfan. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	26
50	Effect of plant harvesting on the performance of constructed wetlands during winter: radial oxygen loss and microbial characteristics. Environmental Science and Pollution Research, 2015, 22, 7476-7484.	5.3	42
51	Strategies and techniques to enhance constructed wetland performance for sustainable wastewater treatment. Environmental Science and Pollution Research, 2015, 22, 14637-14650.	5.3	55
52	Decentralized domestic wastewater treatment using intermittently aerated vertical flow constructed wetlands: Impact of influent strengths. Bioresource Technology, 2015, 176, 163-168.	9.6	144
53	A review on the sustainability of constructed wetlands for wastewater treatment: Design and operation. Bioresource Technology, 2015, 175, 594-601.	9.6	759
54	Bacterial community variation and microbial mechanism of triclosan (TCS) removal by constructed wetlands with different types of plants. Science of the Total Environment, 2015, 505, 633-639.	8.0	89

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55	A review on the occurrence of micropollutants in the aquatic environment and their fate and removal during wastewater treatment. Science of the Total Environment, 2014, 473-474, 619-641.	8.0	2,812
56	Enhanced nitrogen removal in constructed wetlands: Effects of dissolved oxygen and step-feeding. Bioresource Technology, 2014, 169, 395-402.	9.6	106
57	A comparison study on membrane fouling in a sponge-submerged membrane bioreactor and a conventional membrane bioreactor. Bioresource Technology, 2014, 165, 69-74.	9.6	100
58	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. Water Research, 2014, 53, 1-11.	11.3	65
59	A laboratory study using maple leaves as a biosorbent for lead removal from aqueous solutions. Water Quality Research Journal of Canada, 2014, 49, 195-209.	2.7	9
60	Enhanced organics and nitrogen removal in batch-operated vertical flow constructed wetlands by combination of intermittent aeration and step feeding strategy. Environmental Science and Pollution Research, 2013, 20, 2448-2455.	5.3	95
61	Nitrogen transformations and balance in constructed wetlands for slightly polluted river water treatment using different macrophytes. Environmental Science and Pollution Research, 2013, 20, 443-451.	5.3	65
62	Role of microorganism growth phase in the accumulation and characteristics of biomacromolecules (BMM) in a membrane bioreactor. RSC Advances, 2012, 2, 453-460.	3.6	14
63	Morphological visualization, componential characterization and microbiological identification of membrane fouling in membrane bioreactors (MBRs). Journal of Membrane Science, 2010, 361, 1-14.	8.2	149
64	Effect of solution chemistry on the fouling potential of dissolved organic matter in membrane bioreactor systems. Journal of Membrane Science, 2008, 310, 503-511.	8.2	57
65	Soluble microbial products in membrane bioreactor operation: Behaviors, characteristics, and fouling potential. Water Research, 2007, 41, 95-101.	11.3	291
66	Retarded Transport and Accumulation of Soluble Microbial Products in a Membrane Bioreactor. Journal of Environmental Engineering, ASCE, 2007, 133, 36-43.	1.4	13
67	A Modeling Study of Fouling Development in Membrane Bioreactors for Wastewater Treatment. Water Environment Research, 2006, 78, 857-864.	2.7	27