

Shuang Liang

List of Publications by Year in descending order

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67
papers

6,831
citations

136740

32
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110170

64
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all docs

67
docs citations

67
times ranked

7778
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 619-641.	3.9	2,812
2	A review on the sustainability of constructed wetlands for wastewater treatment: Design and operation. <i>Bioresource Technology</i> , 2015, 175, 594-601.	4.8	759
3	Soluble microbial products in membrane bioreactor operation: Behaviors, characteristics, and fouling potential. <i>Water Research</i> , 2007, 41, 95-101.	5.3	291
4	Typical low cost biosorbents for adsorptive removal of specific organic pollutants from water. <i>Bioresource Technology</i> , 2015, 182, 353-363.	4.8	258
5	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.	4.8	200
6	Optimizations on supply and distribution of dissolved oxygen in constructed wetlands: A review. <i>Bioresource Technology</i> , 2016, 214, 797-805.	4.8	159
7	Morphological visualization, componential characterization and microbiological identification of membrane fouling in membrane bioreactors (MBRs). <i>Journal of Membrane Science</i> , 2010, 361, 1-14.	4.1	149
8	Decentralized domestic wastewater treatment using intermittently aerated vertical flow constructed wetlands: Impact of influent strengths. <i>Bioresource Technology</i> , 2015, 176, 163-168.	4.8	144
9	Enhanced triclosan and nutrient removal performance in vertical up-flow constructed wetlands with manganese oxides. <i>Water Research</i> , 2018, 143, 457-466.	5.3	108
10	Enhanced nitrogen removal in constructed wetlands: Effects of dissolved oxygen and step-feeding. <i>Bioresource Technology</i> , 2014, 169, 395-402.	4.8	106
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.	4.8	100
12	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, 2448-2455.	2.7	95
13	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, 633-639.	3.9	89
14	Intensified organics and nitrogen removal in the intermittent-aerated constructed wetland using a novel sludge-ceramsite as substrate. <i>Bioresource Technology</i> , 2016, 210, 101-107.	4.8	83
15	Microbial abundance and community in subsurface flow constructed wetland microcosms: role of plant presence. <i>Environmental Science and Pollution Research</i> , 2016, 23, 4036-4045.	2.7	80
16	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.	4.8	73
17	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.	2.7	72
18	Performance of microbial fuel cell for treating swine wastewater containing sulfonamide antibiotics. <i>Bioresource Technology</i> , 2020, 311, 123588.	4.8	67

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19	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, 443-451.	2.7	65
20	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. <i>Water Research</i> , 2014, 53, 1-11.	5.3	65
21	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.	3.9	65
22	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.	5.3	63
23	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.	4.8	63
24	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.	4.1	57
25	Strategies and techniques to enhance constructed wetland performance for sustainable wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2015, 22, 14637-14650.	2.7	55
26	Purification ability and carbon dioxide flux from surface flow constructed wetlands treating sewage treatment plant effluent. <i>Bioresource Technology</i> , 2016, 219, 768-772.	4.8	43
27	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, 7476-7484.	2.7	42
28	Enhanced nutrient removal and mechanisms study in benthic fauna added surface-flow constructed wetlands: The role of <i>Tubifex tubifex</i> . <i>Bioresource Technology</i> , 2017, 224, 157-165.	4.8	40
29	Attempts to improve nitrogen utilization efficiency of aquaponics through nitrifies addition and filler gradation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6671-6679.	2.7	38
30	Composition of extracellular polymeric substances in a partial nitrification reactor treating high ammonia wastewater and nitrous oxide emission. <i>Bioresource Technology</i> , 2015, 190, 474-479.	4.8	37
31	Adsorption of phenanthrene from aqueous solutions by biochar derived from an ammoniation-hydrothermal method. <i>Science of the Total Environment</i> , 2020, 733, 139267.	3.9	35
32	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.	4.8	33
33	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.	3.9	32
34	Removal pathways of benzofluoranthene in a constructed wetland amended with metallic ions embedded carbon. <i>Bioresource Technology</i> , 2020, 311, 123481.	4.8	29
35	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.	2.9	28
36	A Modeling Study of Fouling Development in Membrane Bioreactors for Wastewater Treatment. <i>Water Environment Research</i> , 2006, 78, 857-864.	1.3	27

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37	A low-cost approach for soil moisture prediction using multi-sensor data and machine learning algorithm. <i>Science of the Total Environment</i> , 2022, 833, 155066.	3.9	27
38	Response of Bacteria and Fungi in Soil Microcosm under the Presence of Pesticide Endosulfan. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	26
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.	4.8	26
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.	1.7	22
41	Enhancement of anammox performance in a novel non-woven fabric membrane bioreactor (nMBR). <i>RSC Advances</i> , 2015, 5, 86875-86884.	1.7	20
42	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.	4.8	20
43	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, 15524-15531.	2.7	19
44	Microbial community characteristics during simultaneous nitrification-denitrification process: effect of COD/TP ratio. <i>Environmental Science and Pollution Research</i> , 2016, 23, 2557-2565.	2.7	17
45	Intensive removal of PAHs in constructed wetland filled with copper biochar. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111028.	2.9	17
46	Mn oxides changed nitrogen removal process in constructed wetlands with a microbial electrolysis cell. <i>Science of the Total Environment</i> , 2021, 770, 144761.	3.9	17
47	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.	3.7	15
48	Novel magnetic coupling constructed wetland for nitrogen removal: Enhancing performance and responses of plants and microbial communities. <i>Science of the Total Environment</i> , 2022, 819, 152040.	3.9	15
49	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.	1.7	14
50	Enhanced phosphorus removal of constructed wetland through plant growth-promoting rhizobacteria (PGPR) addition. <i>Environmental Science and Pollution Research</i> , 2021, 28, 52124-52132.	2.7	14
51	Retarded Transport and Accumulation of Soluble Microbial Products in a Membrane Bioreactor. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 36-43.	0.7	13
52	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.	1.2	12
53	Effects and mechanisms of constructed wetlands with different substrates on N ₂ O emission in wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 19045-19053.	2.7	10
54	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.	1.2	9

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55	Comparison of physicochemical properties of activated carbons derived from biomass wastes by H_4PO_7 activation: adsorption of trimethoprim. <i>Desalination and Water Treatment</i> , 2016, 57, 21957-21967.	1.0	9
56	<i>Planifilum fulgidum</i> Is the Dominant Functional Microorganism in Compost Containing Spent Mushroom Substrate. <i>Sustainability</i> , 2021, 13, 10002.	1.6	9
57	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.	1.6	8
58	Inorganic particle accumulation promotes nutrient removal of vertical flow constructed wetlands: Mechanisms and implications. <i>Science of the Total Environment</i> , 2021, 778, 146203.	3.9	6
59	Iron ore or manganese ore filled constructed wetlands enhanced removal performance and changed removal process of nitrogen under sulfamethoxazole and trimethoprim stress. <i>Environmental Science and Pollution Research</i> , 2022, 29, 71766-71773.	2.7	6
60	DOM-mediated membrane retention of fluoroquinolone as revealed by fluorescence quenching properties. <i>Scientific Reports</i> , 2017, 7, 5372.	1.6	5
61	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.	2.7	4
62	Effect of humic acid on phenanthrene removal by constructed wetlands using birnessite as a substrate. <i>RSC Advances</i> , 2022, 12, 15231-15239.	1.7	4
63	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.	6.5	2
64	Constructed Wetlands for Wastewater Treatment: Sustainability Revolution in Water Management. , 2016, , 337-373.		1
65	Optimization of nutrient removal performance of magnesia-containing constructed wetlands: a microcosm study. <i>Environmental Science and Pollution Research</i> , 2021, 28, 58583-58591.	2.7	1
66	Environmental impacts of antibiotics addition to algal-bacterial-based aquaponic system. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3777-3786.	1.7	1
67	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.	1.2	0