

Guangzhi Sun

List of Publications by Year in descending order

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59
papers

3,895
citations

117453

34
h-index

149479

56
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59
all docs

59
docs citations

59
times ranked

3000
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on nitrogen and organics removal mechanisms in subsurface flow constructed wetlands: Dependency on environmental parameters, operating conditions and supporting media. <i>Journal of Environmental Management</i> , 2012, 112, 429-448.	3.8	704
2	Nitrogen removal in constructed wetland systems. <i>Engineering in Life Sciences</i> , 2009, 9, 11-22.	2.0	408
3	Enhanced removal of organic matter and ammoniacal-nitrogen in a column experiment of tidal flow constructed wetland system. <i>Journal of Biotechnology</i> , 2005, 115, 189-197.	1.9	153
4	Mechanical strength of microcapsules made of different wall materials. <i>International Journal of Pharmaceutics</i> , 2002, 242, 307-311.	2.6	152
5	Treatment of tannery wastewater in a pilot-scale hybrid constructed wetland system in Bangladesh. <i>Chemosphere</i> , 2012, 88, 1065-1073.	4.2	152
6	Removal processes for arsenic in constructed wetlands. <i>Chemosphere</i> , 2011, 84, 1032-1043.	4.2	138
7	Mechanical properties of melamine-formaldehyde microcapsules. <i>Journal of Microencapsulation</i> , 2001, 18, 593-602.	1.2	131
8	Industrial wastewater treatment in constructed wetlands packed with construction materials and agricultural by-products. <i>Journal of Cleaner Production</i> , 2018, 189, 442-453.	4.6	100
9	A lab-scale study of constructed wetlands with sugarcane bagasse and sand media for the treatment of textile wastewater. <i>Bioresource Technology</i> , 2013, 128, 438-447.	4.8	99
10	Completely autotrophic nitrogen-removal over nitrite in lab-scale constructed wetlands: Evidence from a mass balance study. <i>Chemosphere</i> , 2007, 68, 1120-1128.	4.2	89
11	Anti-sized reed bed system for animal wastewater treatment: a comparative study. <i>Water Research</i> , 2004, 38, 2907-2917.	5.3	88
12	Purification capacity of a highly loaded laboratory scale tidal flow reed bed system with effluent recirculation. <i>Science of the Total Environment</i> , 2004, 330, 1-8.	3.9	84
13	The effect of substrate media on the removal of arsenic, boron and iron from an acidic wastewater in planted column reactors. <i>Chemical Engineering Journal</i> , 2012, 179, 119-130.	6.6	80
14	A comparative study on the removal of nutrients and organic matter in wetland reactors employing organic media. <i>Chemical Engineering Journal</i> , 2011, 171, 439-447.	6.6	79
15	A comprehensive review on nutrients and organics removal from different wastewaters employing subsurface flow constructed wetlands. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 203-288.	6.6	79
16	Enhanced denitrification and organics removal in hybrid wetland columns: Comparative experiments. <i>Bioresource Technology</i> , 2011, 102, 967-974.	4.8	77
17	Effect of effluent recirculation on the performance of a reed bed system treating agricultural wastewater. <i>Process Biochemistry</i> , 2003, 39, 351-357.	1.8	76
18	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. <i>Catalysts</i> , 2019, 9, 353.	1.6	75

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19	Floating constructed wetland for the treatment of polluted river water: A pilot scale study on seasonal variation and shock load. <i>Chemical Engineering Journal</i> , 2016, 287, 62-73.	6.6	70
20	Pore Sizes in Hydrated Dextran Microspheres. <i>Biomacromolecules</i> , 2000, 1, 696-703.	2.6	66
21	Generating "Tide" in Pilot-Scale Constructed Wetlands to Enhance Agricultural Wastewater Treatment. <i>Engineering in Life Sciences</i> , 2006, 6, 560-565.	2.0	62
22	Kinetic modelling of nitrogen and organics removal in vertical and horizontal flow wetlands. <i>Water Research</i> , 2011, 45, 3137-3152.	5.3	62
23	Nitrogen removal and microbial community profiles in six wetland columns receiving high ammonia load. <i>Chemical Engineering Journal</i> , 2012, 203, 326-332.	6.6	54
24	Assessment of Lake Water Quality and Eutrophication Risk in an Agricultural Irrigation Area: A Case Study of the Chagan Lake in Northeast China. <i>Water (Switzerland)</i> , 2019, 11, 2380.	1.2	50
25	Treatment of agricultural wastewater in a combined tidal flow-downflow reed bed system. <i>Water Science and Technology</i> , 1999, 40, 139.	1.2	48
26	Pollutant removal from municipal wastewater employing baffled subsurface flow and integrated surface flow-floating treatment wetlands. <i>Journal of Environmental Sciences</i> , 2014, 26, 726-736.	3.2	45
27	Kinetic modelling of organic matter removal in 80 horizontal flow reed beds for domestic sewage treatment. <i>Process Biochemistry</i> , 2009, 44, 717-722.	1.8	44
28	Removal of ammoniacal-nitrogen from an artificial landfill leachate in downflow reed beds. <i>Process Biochemistry</i> , 2004, 39, 1971-1976.	1.8	43
29	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. <i>Chemical Engineering Journal</i> , 2018, 331, 234-241.	6.6	40
30	Treatment of Agricultural Wastewater in Downflow Reed Beds: Experimental Trials and Mathematical Model. <i>Biosystems Engineering</i> , 1998, 69, 63-71.	0.4	39
31	A mass balance study on nitrification and deammonification in vertical flow constructed wetlands treating landfill leachate. <i>Water Science and Technology</i> , 2007, 56, 117-123.	1.2	39
32	Impacts of Agricultural and Reclamation Practices on Wetlands in the Amur River Basin, Northeastern China. <i>Wetlands</i> , 2018, 38, 383-389.	0.7	38
33	Treatment of Agricultural Wastewater in a Pilot-Scale Tidal Flow Reed Bed System. <i>Environmental Technology (United Kingdom)</i> , 1999, 20, 233-237.	1.2	36
34	The removal of nitrogen and organics in vertical flow wetland reactors: Predictive models. <i>Bioresource Technology</i> , 2011, 102, 1205-1213.	4.8	36
35	Optimization of dark fermentation for biohydrogen production using a hybrid artificial neural network (<scp>ANN</scp>) and response surface methodology (<scp>RSM</scp>) approach. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, .	1.3	36
36	Pollutant removals employing unsaturated and partially saturated vertical flow wetlands: A comparative study. <i>Chemical Engineering Journal</i> , 2017, 325, 332-341.	6.6	32

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37	Optimising the performance of a lab-scale tidal flow reed bed system treating agricultural wastewater. <i>Water Science and Technology</i> , 2004, 50, 65-72.	1.2	30
38	The use of biochar and crushed mortar in treatment wetlands to enhance the removal of nutrients from sewage. <i>Environmental Science and Pollution Research</i> , 2019, 26, 586-599.	2.7	27
39	Enhancing the removal of arsenic, boron and heavy metals in subsurface flow constructed wetlands using different supporting media. <i>Water Science and Technology</i> , 2011, 63, 2612-2618.	1.2	26
40	An Alternative Arrangement of Gravel Media in Tidal Flow Reed Beds Treating Pig Farm Wastewater. <i>Water, Air, and Soil Pollution</i> , 2007, 182, 13-19.	1.1	24
41	Treatment of Agricultural and Domestic Effluents in Constructed Downflow Reed Beds Employing Recirculation. <i>Environmental Technology (United Kingdom)</i> , 1998, 19, 529-536.	1.2	22
42	Identifying the regional-scale groundwater-surface water interaction on the Sanjiang Plain, Northeast China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16951-16961.	2.7	22
43	Impregnated calcium-alginate beads as floating reactors for the remediation of nitrate-contaminated groundwater. <i>Chemical Engineering Journal</i> , 2020, 382, 122774.	6.6	18
44	Effects of Irrigation Discharge on Salinity of a Large Freshwater Lake: A Case Study in Chagan Lake, Northeast China. <i>Water (Switzerland)</i> , 2020, 12, 2112.	1.2	16
45	Preparation of biochar catalyst from black liquor by spray drying and fluidized bed carbonation for biodiesel synthesis. <i>Chemical Engineering Research and Design</i> , 2020, 141, 333-343.	2.7	16
46	Application of ferrihydrite and calcite as composite sediment capping materials in a eutrophic lake. <i>Journal of Soils and Sediments</i> , 2018, 18, 1185-1193.	1.5	15
47	Wetland saturation with introduced Fe(III) reduces total carbon emissions and promotes the sequestration of DOC. <i>Geoderma</i> , 2018, 325, 141-151.	2.3	14
48	Performance Study of stirred tank slurry reactor and fixed-bed reactor using bimetallic Co-Ni mesoporous silica catalyst for Fischer-Tropsch synthesis. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 553-561.	1.3	14
49	Simulation and evaluation of the water purification function of Zhalong Wetland based on a combined water quantity-quality model. <i>Science China Technological Sciences</i> , 2012, 55, 1973-1981.	2.0	8
50	A STATISTICAL ANALYSIS ON THE REMOVAL OF ORGANIC MATTER IN SUBSURFACE FLOW CONSTRUCTED WETLANDS IN THE UK. <i>Environmental Technology (United Kingdom)</i> , 2008, 29, 1139-1144.	1.2	7
51	Preparation of hybrid porous carbon using black liquor lignin impregnated with steelmaking slag and its performance in SO ₂ removal. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 1417-1427.	1.3	7
52	Experimental and CFD study of H ₂ S oxidation by activated carbon prepared from cotton pulp black liquor. <i>Chemical Engineering Research and Design</i> , 2020, 134, 131-139.	2.7	6
53	CALCULATION OF WETLANDS ECOLOGICAL WATER REQUIREMENT IN CHINA'S WESTERN JILIN PROVINCE BASED ON REGIONALIZATION AND GRADATION TECHNIQUES. <i>Applied Ecology and Environmental Research</i> , 2016, 14, 463-478.	0.2	5
54	Is There Any Correlation Between Landscape Characteristics and Total Nitrogen in Wetlands Receiving Agricultural Drainages?. <i>Chinese Geographical Science</i> , 2019, 29, 712-724.	1.2	4

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55	Effect of salinity and temperature on air dissolution in an unpacked air saturator of a dissolved air flotation system. , 0, 170, 91-100.		4
56	Water quantity and quality assessment on a tertiary treatment wetland in a tropical climate. Water Science and Technology, 2015, 71, 511-517.	1.2	2
57	Effects of artificial aeration and iron inputs on the transformation of carbon and phosphorus in a typical wetland soil. Journal of Soils and Sediments, 2018, 18, 3244-3255.	1.5	2
58	Preparation of biomass derived porous carbon: application for methane energy storage. , 2016, , .		1
59	Pb (II) ions sequestration from aqueous solutions by canola stalk: isotherms and kinetics studies. , 0, 118, 205-215.		1