

Guangzhi Sun

List of Publications by Citations

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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.

56
papers

3,079
citations

30
h-index

55
g-index

59
ext. papers

3,470
ext. citations

6.4
avg, IF

5.7
L-index

#	Paper	IF	Citations
56	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, 429-48	7.9	543
55	Nitrogen removal in constructed wetland systems. <i>Engineering in Life Sciences</i> , 2009 , 9, 11-22	3.4	319
54	Mechanical strength of microcapsules made of different wall materials. <i>International Journal of Pharmaceutics</i> , 2002 , 242, 307-11	6.5	136
53	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, 189-97	3.7	133
52	Treatment of tannery wastewater in a pilot-scale hybrid constructed wetland system in Bangladesh. <i>Chemosphere</i> , 2012 , 88, 1065-73	8.4	118
51	Mechanical properties of melamine-formaldehyde microcapsules. <i>Journal of Microencapsulation</i> , 2001 , 18, 593-602	3.4	118
50	Removal processes for arsenic in constructed wetlands. <i>Chemosphere</i> , 2011 , 84, 1032-43	8.4	117
49	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, 438-47	11	76
48	Completely autotrophic nitrogen-removal over nitrite in lab-scale constructed wetlands: evidence from a mass balance study. <i>Chemosphere</i> , 2007 , 68, 1120-8	8.4	76
47	Anti-sized reed bed system for animal wastewater treatment: a comparative study. <i>Water Research</i> , 2004 , 38, 2907-17	12.5	73
46	Enhanced denitrification and organics removal in hybrid wetland columns: comparative experiments. <i>Bioresource Technology</i> , 2011 , 102, 967-74	11	72
45	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	10.2	71
44	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	14.7	69
43	Effect of effluent recirculation on the performance of a reed bed system treating agricultural wastewater. <i>Process Biochemistry</i> , 2003 , 39, 351-357	4.8	69
42	Industrial wastewater treatment in constructed wetlands packed with construction materials and agricultural by-products. <i>Journal of Cleaner Production</i> , 2018 , 189, 442-453	10.3	67
41	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	14.7	64
40	Pore sizes in hydrated dextran microspheres. <i>Biomacromolecules</i> , 2000 , 1, 696-703	6.9	64

39	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	11.1	63
38	Generating Wide In Pilot-Scale Constructed Wetlands to Enhance Agricultural Wastewater Treatment. <i>Engineering in Life Sciences</i> , 2006 , 6, 560-565	3.4	56
37	Kinetic modelling of nitrogen and organics removal in vertical and horizontal flow wetlands. <i>Water Research</i> , 2011 , 45, 3137-52	12.5	50
36	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	14.7	48
35	Kinetic modelling of organic matter removal in 80 horizontal flow reed beds for domestic sewage treatment. <i>Process Biochemistry</i> , 2009 , 44, 717-722	4.8	42
34	Nitrogen removal and microbial community profiles in six wetland columns receiving high ammonia load. <i>Chemical Engineering Journal</i> , 2012 , 203, 326-332	14.7	41
33	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. <i>Catalysts</i> , 2019 , 9, 353	4	38
32	A mass balance study on nitrification and deammonification in vertical flow constructed wetlands treating landfill leachate. <i>Water Science and Technology</i> , 2007 , 56, 117-23	2.2	38
31	Pollutant removal from municipal wastewater employing baffled subsurface flow and integrated surface flow-floating treatment wetlands. <i>Journal of Environmental Sciences</i> , 2014 , 26, 726-36	6.4	36
30	Removal of ammoniacal-nitrogen from an artificial landfill leachate in downflow reed beds. <i>Process Biochemistry</i> , 2004 , 39, 1971-1976	4.8	35
29	Treatment of agricultural wastewater in a combined tidal flow-downflow reed bed system. <i>Water Science and Technology</i> , 1999 , 40, 139	2.2	32
28	Treatment of Agricultural Wastewater in a Pilot-Scale Tidal Flow Reed Bed System. <i>Environmental Technology (United Kingdom)</i> , 1999 , 20, 233-237	2.6	31
27	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. <i>Chemical Engineering Journal</i> , 2018 , 331, 234-241	14.7	30
26	Pollutant removals employing unsaturated and partially saturated vertical flow wetlands: A comparative study. <i>Chemical Engineering Journal</i> , 2017 , 325, 332-341	14.7	29
25	Treatment of Agricultural Wastewater in Downflow Reed Beds: Experimental Trials and Mathematical Model. <i>Biosystems Engineering</i> , 1998 , 69, 63-71		29
24	The removal of nitrogen and organics in vertical flow wetland reactors: predictive models. <i>Bioresource Technology</i> , 2011 , 102, 1205-13	11	27
23	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	2.2	27
22	Impacts of Agricultural and Reclamation Practices on Wetlands in the Amur River Basin, Northeastern China. <i>Wetlands</i> , 2018 , 38, 383-389	1.7	27

21	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	3	22
20	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	5.1	22
19	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, 2612-8	2.2	21
18	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	2.6	20
17	Treatment of Agricultural and Domestic Effluents in Constructed Downflow Reed Beds Employing Recirculation. <i>Environmental Technology (United Kingdom)</i> , 1998 , 19, 529-536	2.6	15
16	Performance Study of stirred tank slurry reactor and fixed-bed reactor using bimetallic CoNi mesoporous silica catalyst for fischerTropsch synthesis. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 553-561	2.5	13
15	Identifying the regional-scale groundwater-surface water interaction on the Sanjiang Plain, Northeast China. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 16951-61	5.1	12
14	Impregnated calcium-alginate beads as floating reactors for the remediation of nitrate-contaminated groundwater. <i>Chemical Engineering Journal</i> , 2020 , 382, 122774	14.7	12
13	Optimization of dark fermentation for biohydrogen production using a hybrid artificial neural network (ANN) and response surface methodology (RSM) approach. <i>Environmental Progress and Sustainable Energy</i> , 2021 , 40,	2.5	12
12	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	3.4	12
11	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	5.5	9
10	A statistical analysis on the removal of organic matter in subsurface flow constructed wetlands in the U.K. <i>Environmental Technology (United Kingdom)</i> , 2008 , 29, 1139-44	2.6	7
9	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	2.5	6
8	Wetland saturation with introduced Fe(III) reduces total carbon emissions and promotes the sequestration of DOC. <i>Geoderma</i> , 2018 , 325, 141-151	6.7	6
7	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	3.5	6
6	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	3	6
5	Is There Any Correlation Between Landscape Characteristics and Total Nitrogen in Wetlands Receiving Agricultural Drainages?. <i>Chinese Geographical Science</i> , 2019 , 29, 712-724	2.9	3
4	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	1.9	3

3	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	5.5	3
2	Water quantity and quality assessment on a tertiary treatment wetland in a tropical climate. <i>Water Science and Technology</i> , 2015 , 71, 511-7	2.2	1
1	Effects of artificial aeration and iron inputs on the transformation of carbon and phosphorus in a typical wetland soil. <i>Journal of Soils and Sediments</i> , 2018 , 18, 3244-3255	3.4	0