Guangzhi Sun

List of Publications by Year in Descending Order

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	Optimization of dark fermentation for biohydrogen production using a hybrid artificial neural network (ANN) and response surface methodology (RSM) approach. *Environmental Progress and Sustainable Energy*, **2021**, 40,	2.5	12
55	Preparation of biochar catalyst from black liquor by spray drying and fluidized bed carbonation for biodiesel synthesis. *Chemical Engineering Research and Design*, **2020**, 141, 333-343	5.5	9
54	Experimental and CFD study of H2S oxidation by activated carbon prepared from cotton pulp black liquor. *Chemical Engineering Research and Design*, **2020**, 134, 131-139	5.5	3
53	Effects of Irrigation Discharge on Salinity of a Large Freshwater Lake: A Case Study in Chagan Lake, Northeast China. *Water (Switzerland)*, **2020**, 12, 2112	3	6
52	Impregnated calcium-alginate beads as floating reactors for the remediation of nitrate-contaminated groundwater. *Chemical Engineering Journal*, **2020**, 382, 122774	14.7	12
51	A Review of the Enhancement of Bio-Hydrogen Generation by Chemicals Addition. *Catalysts*, **2019**, 9, 353	4	38
50	Is There Any Correlation Between Landscape Characteristics and Total Nitrogen in Wetlands Receiving Agricultural Drainages?. *Chinese Geographical Science*, **2019**, 29, 712-724	2.9	3
49	Assessment of Lake Water Quality and Eutrophication Risk in an Agricultural Irrigation Area: A Case Study of the Chagan Lake in Northeast China. *Water (Switzerland)*, **2019**, 11, 2380	3	22
48	The use of biochar and crushed mortar in treatment wetlands to enhance the removal of nutrients from sewage. *Environmental Science and Pollution Research*, **2019**, 26, 586-599	5.1	22
47	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. *Chemical Engineering Journal*, **2018**, 331, 234-241	14.7	30
46	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	3.4	0
45	Industrial wastewater treatment in constructed wetlands packed with construction materials and agricultural by-products. *Journal of Cleaner Production*, **2018**, 189, 442-453	10.3	67
44	Wetland saturation with introduced Fe(III) reduces total carbon emissions and promotes the sequestration of DOC. *Geoderma*, **2018**, 325, 141-151	6.7	6
43	Performance Study of stirred tank slurry reactor and fixed-bed reactor using bimetallic Co□Ni mesoporous silica catalyst for fischer□ropsch synthesis. *Environmental Progress and Sustainable Energy*, **2018**, 37, 553-561	2.5	13
42	Impacts of Agricultural and Reclamation Practices on Wetlands in the Amur River Basin, Northeastern China. *Wetlands*, **2018**, 38, 383-389	1.7	27
41	Application of ferrihydrite and calcite as composite sediment capping materials in a eutrophic lake. *Journal of Soils and Sediments*, **2018**, 18, 1185-1193	3.4	12
40	A comprehensive review on nutrients and organics removal from different wastewaters employing subsurface flow constructed wetlands. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 203-288	11.1	63

39	Pollutant removals employing unsaturated and partially saturated vertical flow wetlands: A comparative study. *Chemical Engineering Journal*, **2017**, 325, 332-341	14.7	29
38	Preparation of hybrid porous carbon using black liquor lignin impregnated with steelmaking slag and its performance in SO2 removal. *Environmental Progress and Sustainable Energy*, **2017**, 36, 1417-1427	2.5	6
37	Floating constructed wetland for the treatment of polluted river water: A pilot scale study on seasonal variation and shock load. *Chemical Engineering Journal*, **2016**, 287, 62-73	14.7	48
36	CALCULATION OF WETLANDS ECOLOGICAL WATER REQUIREMENT IN CHINA'S WESTERN JILIN PROVINCE BASED ON REGIONALIZATION AND GRADATION TECHNIQUES. *Applied Ecology and Environmental Research*, **2016**, 14, 463-478	1.9	3
35	Water quantity and quality assessment on a tertiary treatment wetland in a tropical climate. *Water Science and Technology*, **2015**, 71, 511-7	2.2	1
34	Identifying the regional-scale groundwater-surface water interaction on the Sanjiang Plain, Northeast China. *Environmental Science and Pollution Research*, **2015**, 22, 16951-61	5.1	12
33	Pollutant removal from municipal wastewater employing baffled subsurface flow and integrated surface flow-floating treatment wetlands. *Journal of Environmental Sciences*, **2014**, 26, 726-36	6.4	36
32	A lab-scale study of constructed wetlands with sugarcane bagasse and sand media for the treatment of textile wastewater. *Bioresource Technology*, **2013**, 128, 438-47	11	76
31	Nitrogen removal and microbial community profiles in six wetland columns receiving high ammonia load. *Chemical Engineering Journal*, **2012**, 203, 326-332	14.7	41
30	A review on nitrogen and organics removal mechanisms in subsurface flow constructed wetlands: dependency on environmental parameters, operating conditions and supporting media. *Journal of Environmental Management*, **2012**, 112, 429-48	7.9	543
29	Simulation and evaluation of the water purification function of Zhalong Wetland based on a combined water quantity-quality model. *Science China Technological Sciences*, **2012**, 55, 1973-1981	3.5	6
28	The effect of substrate media on the removal of arsenic, boron and iron from an acidic wastewater in planted column reactors. *Chemical Engineering Journal*, **2012**, 179, 119-130	14.7	69
27	Treatment of tannery wastewater in a pilot-scale hybrid constructed wetland system in Bangladesh. *Chemosphere*, **2012**, 88, 1065-73	8.4	118
26	Enhancing the removal of arsenic, boron and heavy metals in subsurface flow constructed wetlands using different supporting media. *Water Science and Technology*, **2011**, 63, 2612-8	2.2	21
25	Kinetic modelling of nitrogen and organics removal in vertical and horizontal flow wetlands. *Water Research*, **2011**, 45, 3137-52	12.5	50
24	Removal processes for arsenic in constructed wetlands. *Chemosphere*, **2011**, 84, 1032-43	8.4	117
23	The removal of nitrogen and organics in vertical flow wetland reactors: predictive models. *Bioresource Technology*, **2011**, 102, 1205-13	11	27
22	A comparative study on the removal of nutrients and organic matter in wetland reactors employing organic media. *Chemical Engineering Journal*, **2011**, 171, 439-447	14.7	64

21	Enhanced denitrification and organics removal in hybrid wetland columns: comparative experiments. *Bioresource Technology*, **2011**, 102, 967-74	11	72
20	Kinetic modelling of organic matter removal in 80 horizontal flow reed beds for domestic sewage treatment. *Process Biochemistry*, **2009**, 44, 717-722	4.8	42
19	Nitrogen removal in constructed wetland systems. *Engineering in Life Sciences*, **2009**, 9, 11-22	3.4	319
18	A statistical analysis on the removal of organic matter in subsurface flow constructed wetlands in the U.K. *Environmental Technology (United Kingdom)*, **2008**, 29, 1139-44	2.6	7
17	An Alternative Arrangement of Gravel Media in Tidal Flow Reed Beds Treating Pig Farm Wastewater. *Water, Air, and Soil Pollution*, **2007**, 182, 13-19	2.6	20
16	A mass balance study on nitrification and deammonification in vertical flow constructed wetlands treating landfill leachate. *Water Science and Technology*, **2007**, 56, 117-23	2.2	38
15	Completely autotrophic nitrogen-removal over nitrite in lab-scale constructed wetlands: evidence from a mass balance study. *Chemosphere*, **2007**, 68, 1120-8	8.4	76
14	Generating Tide In Pilot-Scale Constructed Wetlands to Enhance Agricultural Wastewater Treatment. *Engineering in Life Sciences*, **2006**, 6, 560-565	3.4	56
13	Enhanced removal of organic matter and ammoniacal-nitrogen in a column experiment of tidal flow constructed wetland system. *Journal of Biotechnology*, **2005**, 115, 189-97	3.7	133
12	Optimising the performance of a lab-scale tidal flow reed bed system treating agricultural wastewater. *Water Science and Technology*, **2004**, 50, 65-72	2.2	27
11	Purification capacity of a highly loaded laboratory scale tidal flow reed bed system with effluent recirculation. *Science of the Total Environment*, **2004**, 330, 1-8	10.2	71
10	Removal of ammoniacal-nitrogen from an artificial landfill leachate in downflow reed beds. *Process Biochemistry*, **2004**, 39, 1971-1976	4.8	35
9	Anti-sized reed bed system for animal wastewater treatment: a comparative study. *Water Research*, **2004**, 38, 2907-17	12.5	73
8	Effect of effluent recirculation on the performance of a reed bed system treating agricultural wastewater. *Process Biochemistry*, **2003**, 39, 351-357	4.8	69
7	Mechanical strength of microcapsules made of different wall materials. *International Journal of Pharmaceutics*, **2002**, 242, 307-11	6.5	136
6	Mechanical properties of melamine-formaldehyde microcapsules. *Journal of Microencapsulation*, **2001**, 18, 593-602	3.4	118
5	Pore sizes in hydrated dextran microspheres. *Biomacromolecules*, **2000**, 1, 696-703	6.9	64
4	Treatment of Agricultural Wastewater in a Pilot-Scale Tidal Flow Reed Bed System. *Environmental Technology (United Kingdom)*, **1999**, 20, 233-237	2.6	31

3	Treatment of agricultural wastewater in a combined tidal flow-downflow reed bed system. *Water Science and Technology*, **1999**, 40, 139	2.2	32
2	Treatment of Agricultural Wastewater in Downflow Reed Beds: Experimental Trials and Mathematical Model. *Biosystems Engineering*, **1998**, 69, 63-71		29
1	Treatment of Agricultural and Domestic Effluents in Constructed Downflow Reed Beds Employing Recirculation. *Environmental Technology (United Kingdom)*, **1998**, 19, 529-536	2.6	15