Sheng Zhou

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.

57 papers	972 citations	18 h-index	29 g-index
58 ext. papers	1,229 ext. citations	4.6 avg, IF	4.42 L-index

#	Paper	IF	Citations
57	Straw biochar hastens organic matter degradation and produces nutrient-rich compost. *Bioresource Technology*, **2016**, 200, 876-83	11	114
56	The relationship between anammox and denitrification in the sediment of an inland river. *Science of the Total Environment*, **2014**, 490, 1029-36	10.2	73
55	Nitrogen transformations and balance in a constructed wetland for nutrient-polluted river water treatment using forage rice in Japan. *Ecological Engineering*, **2008**, 32, 147-155	3.9	59
54	Presence and detection of anaerobic ammonium-oxidizing (anammox) bacteria and appraisal of anammox process for high-strength nitrogenous wastewater treatment: a review. *Clean Technologies and Environmental Policy*, **2011**, 13, 759-781	4.3	55
53	Ammonia Emissions from Anaerobically-digested Slurry and Chemical Fertilizer Applied to Flooded Forage Rice. *Water, Air, and Soil Pollution*, **2007**, 183, 37-48	2.6	49
52	Physiological characteristics of predominant ammonia-oxidizing bacteria enriched from bioreactors with different influent supply regimes. *Biochemical Engineering Journal*, **2013**, 79, 153-161	4.2	46
51	Assessing nitrification and denitrification in a paddy soil with different water dynamics and applied liquid cattle waste using the □N isotopic technique. *Science of the Total Environment*, **2012**, 430, 93-100	10.2	45
50	A two-year field measurement of methane and nitrous oxide fluxes from rice paddies under contrasting climate conditions. *Scientific Reports*, **2016**, 6, 28255	4.9	35
49	The influence of the total solid content on the stability of dry-thermophilic anaerobic digestion of rice straw and pig manure. *Waste Management*, **2018**, 76, 350-356	8.6	34
48	Effects of wheat straw addition on dynamics and fate of nitrogen applied to paddy soils. *Soil and Tillage Research*, **2018**, 178, 92-98	6.5	33
47	Nitrogen Budget and Ammonia Volatilization in Paddy Fields Fertilized With Liquid Cattle Waste. *Water, Air, and Soil Pollution*, **2009**, 201, 135-147	2.6	30
46	Variation of the microbial community in thermophilic anaerobic digestion of pig manure mixed with different ratios of rice straw. *Journal of Bioscience and Bioengineering*, **2016**, 122, 334-40	3.3	26
45	Effect of infiltration rate on nitrogen dynamics in paddy soil after high-load nitrogen application containing 15N tracer. *Ecological Engineering*, **2011**, 37, 685-692	3.9	25
44	Effects of controlled-release fertilizer on rice grain yield, nitrogen use efficiency, and greenhouse gas emissions in a paddy field with straw incorporation. *Field Crops Research*, **2020**, 253, 107814	5.5	22
43	Long-term effects of straw and straw-derived biochar on soil aggregation and fungal community in a rice-wheat rotation system. *PeerJ*, **2019**, 6, e6171	3.1	21
42	Runoff loss of nitrogen and phosphorus from a rice paddy field in the east of China: Effects of long-term chemical N fertilizer and organic manure applications. *Global Ecology and Conservation*, **2020**, 22, e01011	2.8	20
41	Three-year rice grain yield responses to coastal mudflat soil properties amended with straw biochar. *Journal of Environmental Management*, **2019**, 239, 23-29	7.9	19

40	CH□and N□O emissions from different varieties of forage rice (Oryza sativa L.) treating liquid cattle waste. *Science of the Total Environment*, **2012**, 419, 178-86	10.2	19
39	Nitrogen Removal, N2O Emission, and NH3 Volatilization Under Different Water Levels in a Vertical Flow Treatment System. *Water, Air, and Soil Pollution*, **2008**, 191, 171-182	2.6	18
38	Influence of nitrogen loading and plant nitrogen assimilation on nitrogen leaching and N□O emission in forage rice paddy fields fertilized with liquid cattle waste. *Environmental Science and Pollution Research*, **2015**, 22, 5762-71	5.1	14
37	Effect of Straw and Straw Biochar on the Community Structure and Diversity of Ammonia-oxidizing Bacteria and Archaea in Rice-wheat Rotation Ecosystems. *Scientific Reports*, **2019**, 9, 9367	4.9	14
36	Reducing N losses through surface runoff from rice-wheat rotation by improving fertilizer management. *Environmental Science and Pollution Research*, **2017**, 24, 4841-4850	5.1	13
35	Denitrification-dependent anammox activity in a permanently flooded fallow ravine paddy field. *Ecological Engineering*, **2016**, 95, 452-456	3.9	13
34	Long-term effects of straw return and straw-derived biochar amendment on bacterial communities in soil aggregates. *Scientific Reports*, **2020**, 10, 7891	4.9	12
33	Short-Term Responses of Nitrous Oxide Emissions and Concentration Profiles to Fertilization and Irrigation in Greenhouse Vegetable Cultivation. *Pedosphere*, **2012**, 22, 764-775	5	12
32	Nitrogen transformations in vertical flow systems with and without rice (Oryza sativa) studied with a high-resolution soil□water profiler. *Ecological Engineering*, **2009**, 35, 213-220	3.9	11
31	CH4 Emission in Response to Water-Saving and Drought-Resistance Rice (WDR) and Common Rice Varieties under Different Irrigation Managements. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	11
30	Degradation of Perfluorooctansulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) by Mechanochemical Treatment. *Kagaku Kogaku Ronbunshu*, **2008**, 34, 539-544	0.4	10
29	Effect of water-saving irrigation on the N2O dynamics and the contribution of exogenous and endogenous nitrogen to N2O production in paddy soil using 15N tracing. *Soil and Tillage Research*, **2020**, 200, 104610	6.5	9
28	Greenhouse gas mitigation potential under different rice-crop rotation systems: from site experiment to model evaluation. *Clean Technologies and Environmental Policy*, **2019**, 21, 1587-1601	4.3	9
27	In Situ Dissimilatory Nitrate Reduction to Ammonium in a Paddy Soil Fertilized with Liquid Cattle Waste. *Pedosphere*, **2012**, 22, 314-321	5	9
26	Direct and Indirect Greenhouse Gas Emissions from Vertical Flow Constructed Wetland Planted with Forage Rice. *Kagaku Kogaku Ronbunshu*, **2010**, 36, 229-236	0.4	8
25	Mitigation of CH4 and N2O emissions from a forage rice field fertilized with aerated liquid fraction of cattle slurry by optimizing water management and topdressing. *Ecological Engineering*, **2015**, 75, 24-32	3.9	7
24	Mass and Energy Balances of Dry Thermophilic Anaerobic Digestion Treating Swine Manure Mixed with Rice Straw. *Biotechnology Research International*, **2015**, 2015, 895015		7
23	Adequacy of a Simple Diffusion Model to Predict Benzene Behavior in Soil. *Soil Science Society of America Journal*, **2011**, 75, 2147-2157	2.5	7

22	Year-to-year climate variability affects methane emission from paddy fields under irrigated conditions. *Environmental Science and Pollution Research*, **2020**, 27, 14780-14789	5.1	6
21	Nutrient removal, methane and nitrous oxide emissions in a hybrid constructed wetland treating anaerobic digestate. *Science of the Total Environment*, **2020**, 733, 138338	10.2	6
20	Carbon sequestration and emissions mitigation in paddy fields based on the DNDC model: A review. *Artificial Intelligence in Agriculture*, **2020**, 4, 140-149	7.8	6
19	Nitrous oxide production and mRNA expression analysis of nitrifying and denitrifying bacterial genes under floodwater disappearance and fertilizer application. *Environmental Science and Pollution Research*, **2017**, 24, 15852-15859	5.1	5
18	Effects of N loading rate on CH4 and N2O emissions during cultivation and fallow periods from forage rice fields fertilized with liquid cattle waste. *Journal of Environmental Management*, **2015**, 161, 124-130	7.9	5
17	Effects of different fertilization methods on ammonia volatilization from rice paddies. *Journal of Cleaner Production*, **2021**, 295, 126299	10.3	5
16	Spatial and temporal responses of ammonia-oxidizing bacteria and archaea to organic amendments in rice-wheat rotation system. *Applied Soil Ecology*, **2019**, 139, 94-99	5	4
15	Nitrogen removal from polluted river water by surface flow wetland with forage rice (Oryza sativa L. cv. Kusahonami). *International Journal of Environmental Engineering*, **2009**, 1, 123	0.2	3
14	Nitrogen Dynamics and Biomass Production in a Vertical Flow Constructed Wetland Cultivated with Forage Rice and their Mathematical Modeling. *Journal of Water and Environment Technology*, **2009**, 7, 251-266	1.1	3
13	Nitrogen Transformations in Paddy Fields Treated with High Loads of Liquid Cattle Waste. *Journal of Chemical Engineering of Japan*, **2011**, 44, 713-719	0.8	3
12	Inhibition of Cyanobacterial Growth by Allelopathy of Reed. *Japanese Journal of Water Treatment Biology*, **2004**, 40, 23-28	0.2	3
11	Dry Anaerobic Digestion for Agricultural Waste Recycling		3
10	Effect of moisture gradient on rice yields and greenhouse gas emissions from rice paddies. *Environmental Science and Pollution Research*, **2019**, 26, 33416-33426	5.1	2
9	The soluble fraction from straw-derived biochar supplies nutrients and affects carbon storage of coastal mudflat soil in rice paddy. *Environmental Science and Pollution Research*, **2020**, 27, 18079-18088	5.1	2
8	Evaluation of anaerobic biodegradability of forage rice straw fertilized with livestock waste. *Water Science and Technology*, **2012**, 66, 438-44	2.2	2
7	Drought-resistance rice variety with water-saving management reduces greenhouse gas emissions from paddies while maintaining rice yields. *Agriculture, Ecosystems and Environment*, **2021**, 320, 107592	5.7	2
6	Mechanisms of Nitrogen Removal in Forage Rice Field Applied with Liquid Cattle Waste at High Nitrogen Loading. *Kagaku Kogaku Ronbunshu*, **2012**, 38, 290-298	0.4	1
5	Contributions of photosynthate carbon to methane emissions from rice paddies cultivated using different organic amendment methods: Results from an in-situ 13C-labelling study. *Geoderma*, **2021** , 402, 115190	6.7	1

4	Carbon sequestration and nutrients improvement meditated by biochar in a 3-year vegetable rotation system. *Journal of Soils and Sediments*,1	3.4	1
3	Estimate greenhouse gas emissions from water-saving and drought-resistance rice paddies by deNitrification-deComposition model. *Clean Technologies and Environmental Policy*,1	4.3	0
2	Improved Capillary Electrophoresis Method with a New Buffer for the Determination of Major Cations in Soil Extracts. *Communications in Soil Science and Plant Analysis*, **2012**, 43, 788-798	1.5	
1	Digestibility of Riverbed Plants by Dry-Thermophilic Anaerobic Digestion. *Kagaku Kogaku Ronbunshu*, **2017**, 43, 224-230	0.4	