

# Sheng Zhou

## List of Publications by Year in Descending Order

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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	Effects of different fertilization methods on ammonia volatilization from rice paddies. <i>Journal of Cleaner Production</i> , <b>2021</b> , 295, 126299	10.3	5
56	Drought-resistance rice variety with water-saving management reduces greenhouse gas emissions from paddies while maintaining rice yields. <i>Agriculture, Ecosystems and Environment</i> , <b>2021</b> , 320, 107592	5.7	2
55	Contributions of photosynthate carbon to methane emissions from rice paddies cultivated using different organic amendment methods: Results from an in-situ <sup>13</sup> C-labelling study. <i>Geoderma</i> , <b>2021</b> , 402, 115190	6.7	1
54	Long-term effects of straw return and straw-derived biochar amendment on bacterial communities in soil aggregates. <i>Scientific Reports</i> , <b>2020</b> , 10, 7891	4.9	12
53	The soluble fraction from straw-derived biochar supplies nutrients and affects carbon storage of coastal mudflat soil in rice paddy. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 18079-18088	5.1	2
52	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. <i>Global Ecology and Conservation</i> , <b>2020</b> , 22, e01011	2.8	20
51	Effect of water-saving irrigation on the N <sub>2</sub> O dynamics and the contribution of exogenous and endogenous nitrogen to N <sub>2</sub> O production in paddy soil using <sup>15</sup> N tracing. <i>Soil and Tillage Research</i> , <b>2020</b> , 200, 104610	6.5	9
50	Year-to-year climate variability affects methane emission from paddy fields under irrigated conditions. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 14780-14789	5.1	6
49	Effects of controlled-release fertilizer on rice grain yield, nitrogen use efficiency, and greenhouse gas emissions in a paddy field with straw incorporation. <i>Field Crops Research</i> , <b>2020</b> , 253, 107814	5.5	22
48	Nutrient removal, methane and nitrous oxide emissions in a hybrid constructed wetland treating anaerobic digestate. <i>Science of the Total Environment</i> , <b>2020</b> , 733, 138338	10.2	6
47	Carbon sequestration and emissions mitigation in paddy fields based on the DNDC model: A review. <i>Artificial Intelligence in Agriculture</i> , <b>2020</b> , 4, 140-149	7.8	6
46	Effect of moisture gradient on rice yields and greenhouse gas emissions from rice paddies. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 33416-33426	5.1	2
45	Three-year rice grain yield responses to coastal mudflat soil properties amended with straw biochar. <i>Journal of Environmental Management</i> , <b>2019</b> , 239, 23-29	7.9	19
44	Spatial and temporal responses of ammonia-oxidizing bacteria and archaea to organic amendments in rice-wheat rotation system. <i>Applied Soil Ecology</i> , <b>2019</b> , 139, 94-99	5	4
43	Greenhouse gas mitigation potential under different rice-crop rotation systems: From site experiment to model evaluation. <i>Clean Technologies and Environmental Policy</i> , <b>2019</b> , 21, 1587-1601	4.3	9
42	Long-term effects of straw and straw-derived biochar on soil aggregation and fungal community in a rice-wheat rotation system. <i>PeerJ</i> , <b>2019</b> , 6, e6171	3.1	21
41	Effect of Straw and Straw Biochar on the Community Structure and Diversity of Ammonia-oxidizing Bacteria and Archaea in Rice-wheat Rotation Ecosystems. <i>Scientific Reports</i> , <b>2019</b> , 9, 9367	4.9	14

40	The influence of the total solid content on the stability of dry-thermophilic anaerobic digestion of rice straw and pig manure. <i>Waste Management</i> , <b>2018</b> , 76, 350-356	8.6	34
39	Effects of wheat straw addition on dynamics and fate of nitrogen applied to paddy soils. <i>Soil and Tillage Research</i> , <b>2018</b> , 178, 92-98	6.5	33
38	Nitrous oxide production and mRNA expression analysis of nitrifying and denitrifying bacterial genes under floodwater disappearance and fertilizer application. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 15852-15859	5.1	5
37	Reducing N losses through surface runoff from rice-wheat rotation by improving fertilizer management. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 4841-4850	5.1	13
36	Digestibility of Riverbed Plants by Dry-Thermophilic Anaerobic Digestion. <i>Kagaku Kogaku Ronbunshu</i> , <b>2017</b> , 43, 224-230	0.4	
35	A two-year field measurement of methane and nitrous oxide fluxes from rice paddies under contrasting climate conditions. <i>Scientific Reports</i> , <b>2016</b> , 6, 28255	4.9	35
34	Straw biochar hastens organic matter degradation and produces nutrient-rich compost. <i>Bioresource Technology</i> , <b>2016</b> , 200, 876-83	11	114
33	Denitrification-dependent anammox activity in a permanently flooded fallow ravine paddy field. <i>Ecological Engineering</i> , <b>2016</b> , 95, 452-456	3.9	13
32	CH <sub>4</sub> Emission in Response to Water-Saving and Drought-Resistance Rice (WDR) and Common Rice Varieties under Different Irrigation Managements. <i>Water, Air, and Soil Pollution</i> , <b>2016</b> , 227, 1	2.6	11
31	Variation of the microbial community in thermophilic anaerobic digestion of pig manure mixed with different ratios of rice straw. <i>Journal of Bioscience and Bioengineering</i> , <b>2016</b> , 122, 334-40	3.3	26
30	Influence of nitrogen loading and plant nitrogen assimilation on nitrogen leaching and N <sub>2</sub> O emission in forage rice paddy fields fertilized with liquid cattle waste. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 5762-71	5.1	14
29	Effects of N loading rate on CH <sub>4</sub> and N <sub>2</sub> O emissions during cultivation and fallow periods from forage rice fields fertilized with liquid cattle waste. <i>Journal of Environmental Management</i> , <b>2015</b> , 161, 124-130	7.9	5
28	Mitigation of CH <sub>4</sub> and N <sub>2</sub> O emissions from a forage rice field fertilized with aerated liquid fraction of cattle slurry by optimizing water management and topdressing. <i>Ecological Engineering</i> , <b>2015</b> , 75, 24-32	3.9	7
27	Mass and Energy Balances of Dry Thermophilic Anaerobic Digestion Treating Swine Manure Mixed with Rice Straw. <i>Biotechnology Research International</i> , <b>2015</b> , 2015, 895015		7
26	The relationship between anammox and denitrification in the sediment of an inland river. <i>Science of the Total Environment</i> , <b>2014</b> , 490, 1029-36	10.2	73
25	Physiological characteristics of predominant ammonia-oxidizing bacteria enriched from bioreactors with different influent supply regimes. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 79, 153-161	4.2	46
24	Assessing nitrification and denitrification in a paddy soil with different water dynamics and applied liquid cattle waste using the $\delta^{15}\text{N}$ isotopic technique. <i>Science of the Total Environment</i> , <b>2012</b> , 430, 93-100	10.2	45
23	In Situ Dissimilatory Nitrate Reduction to Ammonium in a Paddy Soil Fertilized with Liquid Cattle Waste. <i>Pedosphere</i> , <b>2012</b> , 22, 314-321	5	9

22	CH <sub>4</sub> and N <sub>2</sub> O emissions from different varieties of forage rice ( <i>Oryza sativa</i> L.) treating liquid cattle waste. <i>Science of the Total Environment</i> , <b>2012</b> , 419, 178-86	10.2	19
21	Improved Capillary Electrophoresis Method with a New Buffer for the Determination of Major Cations in Soil Extracts. <i>Communications in Soil Science and Plant Analysis</i> , <b>2012</b> , 43, 788-798	1.5	
20	Short-Term Responses of Nitrous Oxide Emissions and Concentration Profiles to Fertilization and Irrigation in Greenhouse Vegetable Cultivation. <i>Pedosphere</i> , <b>2012</b> , 22, 764-775	5	12
19	Evaluation of anaerobic biodegradability of forage rice straw fertilized with livestock waste. <i>Water Science and Technology</i> , <b>2012</b> , 66, 438-44	2.2	2
18	Mechanisms of Nitrogen Removal in Forage Rice Field Applied with Liquid Cattle Waste at High Nitrogen Loading. <i>Kagaku Kogaku Ronbunshu</i> , <b>2012</b> , 38, 290-298	0.4	1
17	Presence and detection of anaerobic ammonium-oxidizing (anammox) bacteria and appraisal of anammox process for high-strength nitrogenous wastewater treatment: a review. <i>Clean Technologies and Environmental Policy</i> , <b>2011</b> , 13, 759-781	4.3	55
16	Effect of infiltration rate on nitrogen dynamics in paddy soil after high-load nitrogen application containing 15N tracer. <i>Ecological Engineering</i> , <b>2011</b> , 37, 685-692	3.9	25
15	Adequacy of a Simple Diffusion Model to Predict Benzene Behavior in Soil. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 2147-2157	2.5	7
14	Nitrogen Transformations in Paddy Fields Treated with High Loads of Liquid Cattle Waste. <i>Journal of Chemical Engineering of Japan</i> , <b>2011</b> , 44, 713-719	0.8	3
13	Direct and Indirect Greenhouse Gas Emissions from Vertical Flow Constructed Wetland Planted with Forage Rice. <i>Kagaku Kogaku Ronbunshu</i> , <b>2010</b> , 36, 229-236	0.4	8
12	Nitrogen Budget and Ammonia Volatilization in Paddy Fields Fertilized With Liquid Cattle Waste. <i>Water, Air, and Soil Pollution</i> , <b>2009</b> , 201, 135-147	2.6	30
11	Nitrogen transformations in vertical flow systems with and without rice ( <i>Oryza sativa</i> ) studied with a high-resolution soil/water profiler. <i>Ecological Engineering</i> , <b>2009</b> , 35, 213-220	3.9	11
10	Nitrogen removal from polluted river water by surface flow wetland with forage rice ( <i>Oryza sativa</i> L. cv. Kusahonami). <i>International Journal of Environmental Engineering</i> , <b>2009</b> , 1, 123	0.2	3
9	Nitrogen Dynamics and Biomass Production in a Vertical Flow Constructed Wetland Cultivated with Forage Rice and their Mathematical Modeling. <i>Journal of Water and Environment Technology</i> , <b>2009</b> , 7, 251-266	1.1	3
8	Nitrogen Removal, N <sub>2</sub> O Emission, and NH <sub>3</sub> Volatilization Under Different Water Levels in a Vertical Flow Treatment System. <i>Water, Air, and Soil Pollution</i> , <b>2008</b> , 191, 171-182	2.6	18
7	Nitrogen transformations and balance in a constructed wetland for nutrient-polluted river water treatment using forage rice in Japan. <i>Ecological Engineering</i> , <b>2008</b> , 32, 147-155	3.9	59
6	Degradation of Perfluorooctansulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) by Mechanochemical Treatment. <i>Kagaku Kogaku Ronbunshu</i> , <b>2008</b> , 34, 539-544	0.4	10
5	Ammonia Emissions from Anaerobically-digested Slurry and Chemical Fertilizer Applied to Flooded Forage Rice. <i>Water, Air, and Soil Pollution</i> , <b>2007</b> , 183, 37-48	2.6	49

4	Inhibition of Cyanobacterial Growth by Allelopathy of Reed. <i>Japanese Journal of Water Treatment Biology</i> , <b>2004</b> , 40, 23-28	0.2	3
3	Dry Anaerobic Digestion for Agricultural Waste Recycling		3
2	Estimate greenhouse gas emissions from water-saving and drought-resistance rice paddies by deNitrification-deComposition model. <i>Clean Technologies and Environmental Policy</i> ,1	4.3	0
1	Carbon sequestration and nutrients improvement mediated by biochar in a 3-year vegetable rotation system. <i>Journal of Soils and Sediments</i> ,1	3.4	1