

Zubin Xie

List of Publications by Year in descending order

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35
papers

2,477
citations

279798

23
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

2999
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of biochar decreasing methane emission from Chinese paddy soils. <i>Soil Biology and Biochemistry</i> , 2012, 46, 80-88.	8.8	354
2	Soil organic carbon stocks in China and changes from 1980s to 2000s. <i>Global Change Biology</i> , 2007, 13, 1989-2007.	9.5	324
3	How does biochar influence soil N cycle? A meta-analysis. <i>Plant and Soil</i> , 2018, 426, 211-225.	3.7	210
4	Impact of biochar application on nitrogen nutrition of rice, greenhouse-gas emissions and soil organic carbon dynamics in two paddy soils of China. <i>Plant and Soil</i> , 2013, 370, 527-540.	3.7	187
5	Response of ecosystem respiration to warming and grazing during the growing seasons in the alpine meadow on the Tibetan plateau. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 792-802.	4.8	171
6	Biochar application as a tool to decrease soil nitrogen losses (NH_3) strength in a global perspective. <i>Global Change Biology</i> , 2019, 25, 2077-2093.	9.5	151
7	Fluxes of CO ₂ , CH ₄ , and N ₂ O in an alpine meadow affected by yak excreta on the Qinghai-Tibetan plateau during summer grazing periods. <i>Soil Biology and Biochemistry</i> , 2009, 41, 718-725.	8.8	123
8	Effects of biochar application on greenhouse gas emissions, carbon sequestration and crop growth in coastal saline soil. <i>European Journal of Soil Science</i> , 2015, 66, 329-338.	3.9	101
9	Can biochar alleviate soil compaction stress on wheat growth and mitigate soil N ₂ O emissions?. <i>Soil Biology and Biochemistry</i> , 2017, 104, 8-17.	8.8	100
10	Effects of biochar application on vegetable production and emissions of N ₂ O and CH ₄ . <i>Soil Science and Plant Nutrition</i> , 2012, 58, 503-509.	1.9	62
11	Soil aluminum oxides determine biological nitrogen fixation and diazotrophic communities across major types of paddy soils in China. <i>Soil Biology and Biochemistry</i> , 2019, 131, 81-89.	8.8	61
12	Carbon footprint of rice production under biochar amendment – a case study in a Chinese rice cropping system. <i>GCB Bioenergy</i> , 2016, 8, 148-159.	5.6	54
13	Heterotrophic and phototrophic N ₂ fixation and distribution of fixed N in a flooded rice-soil system. <i>Soil Biology and Biochemistry</i> , 2013, 59, 25-31.	8.8	49
14	Impacts of Mo application on biological nitrogen fixation and diazotrophic communities in a flooded rice-soil system. <i>Science of the Total Environment</i> , 2019, 649, 686-694.	8.0	49
15	Biochar, activated carbon and carbon nanotubes have different effects on fate of ¹⁴ C-catechol and microbial community in soil. <i>Scientific Reports</i> , 2015, 5, 16000.	3.3	48
16	Responses of rice and winter wheat to free-air CO ₂ enrichment (China FACE) at rice/wheat rotation system. <i>Plant and Soil</i> , 2007, 294, 137-146.	3.7	47
17	Effects of Different Biochars on <i>Pinus elliottii</i> Growth, N Use Efficiency, Soil N ₂ O and CH ₄ Emissions and C Storage in a Subtropical Area of China. <i>Pedosphere</i> , 2017, 27, 248-261.	4.0	42
18	CO ₂ mitigation potential in farmland of China by altering current organic matter amendment pattern. <i>Science China Earth Sciences</i> , 2010, 53, 1351-1357.	5.2	38

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19	Effect of elevated atmospheric CO ₂ concentration on soil and root respiration in winter wheat by using a respiration partitioning chamber. <i>Plant and Soil</i> , 2007, 299, 237-249.	3.7	34
20	The influence of particle size and feedstock of biochar on the accumulation of Cd, Zn, Pb, and As by <i>Brassica chinensis</i> L.. <i>Environmental Science and Pollution Research</i> , 2017, 24, 22340-22352.	5.3	34
21	Experimental Warming Increases Seasonal Methane Uptake in an Alpine Meadow on the Tibetan Plateau. <i>Ecosystems</i> , 2015, 18, 274-286.	3.4	33
22	The role of crystallinity and particle morphology on the sorption of dibutyl phthalate on polyethylene microplastics: Implications for the behavior of phthalate plastic additives. <i>Environmental Pollution</i> , 2021, 283, 117393.	7.5	32
23	Mitigating cadmium accumulation in greenhouse lettuce production using biochar. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6532-6542.	5.3	27
24	Unveiling of active diazotrophs in a flooded rice soil by combination of NanoSIMS and ¹⁵ N ₂ -DNA-stable isotope probing. <i>Biology and Fertility of Soils</i> , 2020, 56, 1189-1199.	4.3	17
25	A fast chemical oxidation method for predicting the long-term mineralization of biochar in soils. <i>Science of the Total Environment</i> , 2020, 718, 137390.	8.0	16
26	Ecoenzymatic stoichiometry reveals stronger microbial carbon and nitrogen limitation in biochar amendment soils: A meta-analysis. <i>Science of the Total Environment</i> , 2022, 838, 156532.	8.0	16
27	Ozone pollution influences soil carbon and nitrogen sequestration and aggregate composition in paddy soils. <i>Plant and Soil</i> , 2014, 380, 305-313.	3.7	15
28	Biochar amendment in reductive soil disinfection process improved remediation effect and reduced N ₂ O emission in a nitrate-rich degraded soil. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 983-991.	2.6	15
29	Microbial metabolic efficiency and community stability in high and low fertility soils following wheat residue addition. <i>Applied Soil Ecology</i> , 2021, 159, 103848.	4.3	14
30	Description of <i>Azotobacter chroococcum</i> subsp. <i>isscasi</i> subsp. nov. isolated from paddy soil and establishment of <i>Azotobacter chroococcum</i> subsp. <i>chroococcum</i> subsp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 2124-2131.	1.7	14
31	Paddy System with a Hybrid Rice Enhances Cyanobacteria <i>Nostoc</i> and Increases N ₂ Fixation. <i>Pedosphere</i> , 2019, 29, 374-387.	4.0	10
32	Three-year Field Observation of Biochar-Mediated Changes in Soil Organic Carbon and Microbial Activity. <i>Journal of Environmental Quality</i> , 2019, 48, 717-726.	2.0	10
33	How do different nitrogen application levels and irrigation practices impact biological nitrogen fixation and its distribution in paddy system?. <i>Plant and Soil</i> , 2021, 467, 329-344.	3.7	9
34	K-strategic ammonia-oxidizing bacteria capitalize on biological nitrogen fixation in a flooded, unfertilized rice soil. <i>Biology and Fertility of Soils</i> , 2019, 55, 713-722.	4.3	5
35	Soil Organic Carbon Stocks, Changes and CO ₂ Mitigation Potential by Alteration of Residue Amendment Pattern in China. , 2014, , 457-466.		1