Xin Yu Zhang

List of Publications by Year
in descending order

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47 papers	1,884 citations	304743 22 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	2015 citing authors

#	Article	IF	Citations
1	Soil enzyme activity and stoichiometry in forest ecosystems along the North-South Transect in eastern China (NSTEC). Soil Biology and Biochemistry, 2017, 104, 152-163.	8.8	245
2	The variations in soil microbial communities, enzyme activities and their relationships with soil organic matter decomposition along the northern slope of Changbai Mountain. Applied Soil Ecology, 2015, 86, 19-29.	4.3	174
3	Effect of Different Fertilizer Application on the Soil Fertility of Paddy Soils in Red Soil Region of Southern China. PLoS ONE, 2012, 7, e44504.	2.5	165
4	Impacts of nitrogen and phosphorus additions on the abundance and community structure of ammonia oxidizers and denitrifying bacteria in Chinese fir plantations. Soil Biology and Biochemistry, 2016, 103, 284-293.	8.8	152
5	Responses of absolute and specific soil enzyme activities to long term additions of organic and mineral fertilizer. Science of the Total Environment, 2015, 536, 59-67.	8.0	139
6	Soil functions and ecosystem services research in the Chinese karst Critical Zone. Chemical Geology, 2019, 527, 119107.	3.3	82
7	Nitrate source apportionment using a combined dual isotope, chemical and bacterial property, and Bayesian model approach in river systems. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2-14.	3.0	69
8	Changes in nitrogen-cycling microbial communities with depth in temperate and subtropical forest soils. Applied Soil Ecology, 2018, 124, 218-228.	4.3	64
9	Nitrogen functional gene activity in soil profiles under progressive vegetative recovery after abandonment of agriculture at the Puding Karst Critical Zone Observatory, SW China. Soil Biology and Biochemistry, 2018, 125, 93-102.	8.8	62
10	Nitrate in shallow groundwater in typical agricultural and forest ecosystems in China, 2004â€“2010. Journal of Environmental Sciences, 2013, 25, 1007-1014.	6.1	50
11	Environmental variables better explain changes in potential nitrification and denitrification activities than microbial properties in fertilized forest soils. Science of the Total Environment, 2019, 647, 653-662.	8.0	50
12	Contrasting responses of phosphatase kinetic parameters to nitrogen and phosphorus additions in forest soils. Functional Ecology, 2018, 32, 106-116.	3.6	44
13	Understory vegetation plays the key role in sustaining soil microbial biomass and extracellular enzyme activities. Biogeosciences, 2018, 15, 4481-4494.	3.3	32
14	Rare microbial taxa rather than phoD gene abundance determine hotspots of alkaline phosphomonoesterase activity in the karst rhizosphere soil. Biology and Fertility of Soils, 2021, 57, 257-268.	4.3	32
15	Contribution of soil microbial necromass to SOC stocks during vegetation recovery in a subtropical karst ecosystem. Science of the Total Environment, 2021, 761, 143945.	8.0	31
16	Soil enzyme activity and stoichiometry along a gradient of vegetation restoration at the Karst Critical Zone Observatory in Southwest China. Land Degradation and Development, 2019, 30, 1916-1927.	3.9	30
17	Temporal changes in vegetation around a shale gas development area in a subtropical karst region in southwestern China. Science of the Total Environment, 2020, 701, 134769.	8.0	29
18	Total Nitrogen Concentrations in Surface Water of Typical Agro- and Forest Ecosystems in China, 2004-2009. PLoS ONE, 2014, 9, e92850.	2.5	29

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19	Responses of soil enzyme activity and microbial community compositions to nitrogen addition in bulk and microaggregate soil in the temperate steppe of Inner Mongolia. Eurasian Soil Science, 2016, 49, 1149-1160.	1.6	28
20	Different strategies for regulating free-living N2 fixation in nutrient-amended subtropical and temperate forest soils. Applied Soil Ecology, 2019, 136, 21-29.	4.3	27
21	Biogeographical patterns of soil microbial community as influenced by soil characteristics and climate across Chinese forest biomes. Applied Soil Ecology, 2018, 124, 298-305.	4.3	26
22	Co-regulation of photosynthetic capacity by nitrogen, phosphorus and magnesium in a subtropical Karst forest in China. Scientific Reports, 2018, 8, 7406.	3.3	24
23	Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. Catena, 2021, 207, 105707.	5.0	23
24	Ecosystem service delivery in Karst landscapes: anthropogenic perturbation and recovery. Acta Geochimica, 2017, 36, 416-420.	1.7	22
25	Nitrogen source track and associated isotopic dynamic characteristic in a complex ecosystem: A case study of a subtropical watershed, China. Environmental Pollution, 2018, 236, 177-187.	7.5	21
26	Nitrogen pollution and source identification of urban ecosystem surface water in Beijing. Frontiers of Environmental Science and Engineering, 2014, 8, 106-116.	6.0	19
27	Forest soil acidification consistently reduces litter decomposition irrespective of nutrient availability and litter type. Functional Ecology, 2021, 35, 2753-2762.	3.6	19
28	Hydrolase kinetics to detect temperature-related changes in the rates of soil organic matter decomposition. European Journal of Soil Biology, 2017, 81, 108-115.	3.2	17
29	Accumulation of residual soil microbial carbon in Chinese fir plantation soils after nitrogen and phosphorus additions. Journal of Forestry Research, 2018, 29, 953-962.	3.6	17
30	Responses of soil hydrolytic enzymes, ammonia-oxidizing bacteria and archaea to nitrogen applications in a temperate grassland in Inner Mongolia. Scientific Reports, 2016, 6, 32791.	3.3	16
31	Responses of C-, N- and P-acquiring hydrolases to P and N fertilizers in a subtropical Chinese fir plantation depend on soil depth. Applied Soil Ecology, 2020, 150, 103465.	4.3	15
32	Shift in nitrogen transformation in peatland soil by nitrogen inputs. Science of the Total Environment, 2021, 764, 142924.	8.0	15
33	Contrasting rhizosphere soil nutrient economy of plants associated with arbuscular mycorrhizal and ectomycorrhizal fungi in karst forests. Plant and Soil, 2022, 470, 81-93.	3.7	15
34	Total phosphorus concentrations in surface water of typical agro- and forest ecosystems in China, 2004â€“2010. Frontiers of Environmental Science and Engineering, 2014, 8, 561-569.	6.0	14
35	The strategies of waterâ€“carbon regulation of plants in a subtropical primary forest on karst soils in China. Biogeosciences, 2018, 15, 4193-4203.	3.3	13
36	Specific Responses of Soil Microbial Residue Carbon to Long-Term Mineral Fertilizer Applications to Reddish Paddy Soils. Pedosphere, 2018, 28, 488-496.	4.0	10

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37	Changes in the biological N2-fixation rates and diazotrophic community as vegetation recovers on abandoned farmland in a karst region of China. Applied Soil Ecology, 2021, 158, 103808.	4.3	10
38	Divergence of dominant factors in soil microbial communities and functions in forest ecosystems along a climatic gradient. Biogeosciences, 2018, 15, 1217-1228.	3.3	9
39	How understory vegetation affects the catalytic properties of soil extracellular hydrolases in a Chinese fir (Cunninghamia lanceolata) forest. European Journal of Soil Biology, 2019, 90, 15-21.	3.2	8
40	Increase in soil nutrients in intensively managed cash-crop agricultural ecosystems in the Guanting Reservoir catchment, Beijing, China. Geoderma, 2013, 193-194, 102-108.	5.1	7
41	Main controls on the denitrification rates during cropland revegetation in the southwest China Karst Critical Zone Observatory. Agriculture, Ecosystems and Environment, 2021, 308, 107228.	5.3	6
42	Vegetation recovery alters soil N status in subtropical karst plateau area: Evidence from natural abundance Î´15N and Î´18O. Plant and Soil, 2021, 460, 609-623.	3.7	6
43	Influence of shale gas development on core forests in the subtropical karst region in southwestern China. Science of the Total Environment, 2021, 771, 145287.	8.0	6
44	How newly developed shale gas facilities influence soil erosion in a karst region in SW China. Science of the Total Environment, 2022, 818, 151825.	8.0	6
45	Assessing the quality of the soil around a shale gas development site in a subtropical karst region in southwest China. Science of the Total Environment, 2022, 830, 154730.	8.0	3
46	Plant functional traits determine latitudinal variations in soil microbial function: evidence from forests in China. Biogeosciences, 2019, 16, 3333-3349.	3.3	2
47	Soil Total Organic Carbon, Î´13C Values and Their Responses to the Soil Core Transferring Experiment from High- to Low-elevation Forest along Natural Altitudinal Transect of Old Temperate Volcanic Forest Soils. Procedia Environmental Sciences, 2011, 5, 139-144.	1.4	1