Mianhai Zheng

List of Publications by Citations

88 papers	4,611 citations	35 h-index	67 g-index
91 ext. papers	5,709 ext. citations	6.4 avg, IF	5.52 L-index

#	Paper	IF	Citations
88	Nitrogen deposition and its ecological impact in China: an overview. *Environmental Pollution*, **2011**, 159, 2251-64	9.3	513
87	Old-growth forests can accumulate carbon in soils. *Science*, **2006**, 314, 1417	33.3	328
86	Nitrogen addition reduces soil respiration in a mature tropical forest in southern China. *Global Change Biology*, **2008**, 14, 403-412	11.4	306
85	Effects of phosphorus addition on soil microbial biomass and community composition in three forest types in tropical China. *Soil Biology and Biochemistry*, **2012**, 44, 31-38	7.5	290
84	Nitrogen deposition contributes to soil acidification in tropical ecosystems. *Global Change Biology*, **2014**, 20, 3790-801	11.4	270
83	Effects of experimental nitrogen additions on plant diversity in an old-growth tropical forest. *Global Change Biology*, **2010**, 16, 2688-2700	11.4	186
82	Response of Litter Decomposition to Simulated N Deposition in Disturbed, Rehabilitated and Mature Forests in Subtropical China. *Plant and Soil*, **2006**, 282, 135-151	4.2	186
81	Patterns and mechanisms of responses by soil microbial communities to nitrogen addition. *Soil Biology and Biochemistry*, **2017**, 115, 433-441	7.5	155
80	Nitrogen deposition and forest nitrogen cycling along an urban–rural transect in southern China. *Global Change Biology*, **2011**, 17, 872-885	11.4	150
79	Nitrogen availability in disturbed, rehabilitated and mature forests of tropical China. *Forest Ecology and Management*, **2003**, 175, 573-583	3.9	113
78	Responses of soil microbial community to continuous experimental nitrogen additions for 13 years in a nitrogen-rich tropical forest. *Soil Biology and Biochemistry*, **2018**, 121, 103-112	7.5	92
77	Plant acclimation to long-term high nitrogen deposition in an N-rich tropical forest. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5187-5192	11.5	90
76	Emissions of nitrous oxide from three tropical forests in Southern China in response to simulated nitrogen deposition. *Plant and Soil*, **2008**, 306, 221-236	4.2	89
75	Cumulative effects of nitrogen additions on litter decomposition in three tropical forests in southern China. *Plant and Soil*, **2007**, 297, 233-242	4.2	88
74	Interactive effects of nitrogen and phosphorus on soil microbial communities in a tropical forest. *PLoS ONE*, **2013**, 8, e61188	3.7	83
73	Nitrogen leaching in response to increased nitrogen inputs in subtropical monsoon forests in southern China. *Forest Ecology and Management*, **2009**, 257, 332-342	3.9	79
72	Effects of nitrogen deposition on carbon cycle in terrestrial ecosystems of China: A meta-analysis. *Environmental Pollution*, **2015**, 206, 352-60	9.3	71

71	Divergent responses of soil buffering capacity to long-term N deposition in three typical tropical forests with different land-use history. *Environmental Science & Technology*, **2015**, 49, 4072-80	10.3	67
70	Large Loss of Dissolved Organic Nitrogen from Nitrogen-Saturated Forests in Subtropical China. *Ecosystems*, **2009**, 12, 33-45	3.9	66
69	Effects of long-term nitrogen and phosphorus additions on soil acidification in an N-rich tropical forest. *Geoderma*, **2017**, 285, 57-63	6.7	64
68	Response of soil respiration to simulated N deposition in a disturbed and a rehabilitated tropical forest in southern China. *Plant and Soil*, **2007**, 296, 125-135	4.2	62
67	Global pattern and controls of biological nitrogen fixation under nutrient enrichment: A meta-analysis. *Global Change Biology*, **2019**, 25, 3018-3030	11.4	60
66	CAN Canopy Addition of Nitrogen Better Illustrate the Effect of Atmospheric Nitrogen Deposition on Forest Ecosystem?. *Scientific Reports*, **2015**, 5, 11245	4.9	60
65	Seedling growth response of two tropical tree species to nitrogen deposition in southern China. *European Journal of Forest Research*, **2008**, 127, 275-283	2.7	55
64	Global response patterns of plant photosynthesis to nitrogen addition: A meta-analysis. *Global Change Biology*, **2020**, 26, 3585-3600	11.4	50
63	Methane uptake responses to nitrogen deposition in three tropical forests in southern China. *Journal of Geophysical Research*, **2008**, 113,		50
62	Structure and Organic Matter Dynamics of a Human-Impacted Pine Forest in a MAB Reserve of Subtropical China. *Biotropica*, **1995**, 27, 276	2.3	50
61	Long-term nitrogen addition modifies microbial composition and functions for slow carbon cycling and increased sequestration in tropical forest soil. *Global Change Biology*, **2019**, 25, 3267-3281	11.4	48
60	Responses of soil acid phosphatase and beta-glucosidase to nitrogen and phosphorus addition in two subtropical forests in southern China. *European Journal of Soil Biology*, **2015**, 68, 77-84	2.9	46
59	High retention of N-labeled nitrogen deposition in a nitrogen saturated old-growth tropical forest. *Global Change Biology*, **2016**, 22, 3608-3620	11.4	44
58	Effects of experimental nitrogen and phosphorus addition on litter decomposition in an old-growth tropical forest. *PLoS ONE*, **2013**, 8, e84101	3.7	43
57	Nitrogen saturation in humid tropical forests after 6 years of nitrogen and phosphorus addition: hypothesis testing. *Functional Ecology*, **2016**, 30, 305-313	5.6	43
56	Effects of nitrogen and phosphorus additions on soil microbial biomass and community structure in two reforested tropical forests. *Scientific Reports*, **2015**, 5, 14378	4.9	41
55	Effects of simulated N deposition on foliar nutrient status, N metabolism and photosynthetic capacity of three dominant understory plant species in a mature tropical forest. *Science of the Total Environment*, **2018**, 610-611, 555-562	10.2	37
54	Nutrient limitation in three lowland tropical forests in southern China receiving high nitrogen deposition: insights from fine root responses to nutrient additions. *PLoS ONE*, **2013**, 8, e82661	3.7	35

53	Effects of nitrogen addition on litter decomposition and nutrient release in two tropical plantations with N2-fixing vs. non-N2-fixing tree species. *Plant and Soil*, **2016**, 399, 61-74	4.2	33
52	The 15N natural abundance of the N lost from an N-saturated subtropical forest in southern China. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		33
51	Effects of phosphorus addition with and without nitrogen addition on biological nitrogen fixation in tropical legume and non-legume tree plantations. *Biogeochemistry*, **2016**, 131, 65-76	3.8	32
50	Response of nutrient dynamics of decomposing pine (Pinus massoniana) needles to simulated N deposition in a disturbed and a rehabilitated forest in tropical China. *Ecological Research*, **2007**, 22, 649-658	1.9	28
49	Nitrogen addition reduces soil bacterial richness, while phosphorus addition alters community composition in an old-growth N-rich tropical forest in southern China. *Soil Biology and Biochemistry*, **2018**, 127, 22-30	7.5	28
48	Urbanization in China changes the composition and main sources of wet inorganic nitrogen deposition. *Environmental Science and Pollution Research*, **2015**, 22, 6526-34	5.1	27
47	Different responses of asymbiotic nitrogen fixation to nitrogen addition between disturbed and rehabilitated subtropical forests. *Science of the Total Environment*, **2017**, 601-602, 1505-1512	10.2	26
46	Large difference of inhibitive effect of nitrogen deposition on soil methane oxidation between plantations with N-fixing tree species and non-N-fixing tree species. *Journal of Geophysical Research* , **2012**, 117, n/a-n/a		26
45	Responses of soil phosphorus availability to nitrogen addition in a legume and a non-legume plantation. *Geoderma*, **2018**, 322, 12-18	6.7	25
44	Biological nitrogen fixation and its response to nitrogen input in two mature tropical plantations with and without legume trees. *Biology and Fertility of Soils*, **2016**, 52, 665-674	6.1	25
43	Stoichiometry controls asymbiotic nitrogen fixation and its response to nitrogen inputs in a nitrogen-saturated forest. *Ecology*, **2018**, 99, 2037-2046	4.6	23
42	Substrate stoichiometry determines nitrogen fixation throughout succession in southern Chinese forests. *Ecology Letters*, **2020**, 23, 336-347	10	23
41	Soil-atmosphere exchange of greenhouse gases in subtropical plantations of indigenous tree species. *Plant and Soil*, **2010**, 335, 213-227	4.2	22
40	Responses of soil microbial resource limitation to multiple fertilization strategies. *Soil and Tillage Research*, **2020**, 196, 104474	6.5	22
39	Research on acidification in forest soil driven by atmospheric nitrogen deposition. *Acta Ecologica Sinica*, **2014**, 34, 302-310	2.7	19
38	Effects of long-term nitrogen deposition on phosphorus leaching dynamics in a mature tropical forest. *Biogeochemistry*, **2018**, 138, 215-224	3.8	18
37	Effects of elevated nitrogen deposition on soil microbial biomass carbon in major subtropical forests of southern China. *Frontiers of Forestry in China: Selected Publications From Chinese Universities*, **2009**, 4, 21-27		15
36	Effects of nitrogen and phosphorus additions on nitrous oxide emission in a nitrogen-rich and two nitrogen-limited tropical forests. *Biogeosciences*, **2016**, 13, 3503-3517	4.6	15

35	Phosphate addition enhanced soil inorganic nutrients to a large extent in three tropical forests. *Scientific Reports*, **2015**, 5, 7923	4.9	14
34	Responses of Foliar Nutrient Status and Stoichiometry to Nitrogen Addition in Different Ecosystems: A Meta-analysis. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2019JG005347	3.7	13
33	Effects of human disturbance activities and environmental change factors on terrestrial nitrogen fixation. *Global Change Biology*, **2020**, 26, 6203-6217	11.4	13
32	Urbanization in China drives soil acidification of Pinus massoniana forests. *Scientific Reports*, **2015**, 5, 13512	4.9	11
31	Methane uptake in forest soils along an urban-to-rural gradient in Pearl River Delta, South China. *Scientific Reports*, **2014**, 4, 5120	4.9	9
30	Effects of nitrogen and phosphorus additions on soil methane uptake in disturbed forests. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 3089-3100	3.7	9
29	Mycorrhizal fungi and phosphatase involvement in rhizosphere phosphorus transformations improves plant nutrition during subtropical forest succession. *Soil Biology and Biochemistry*, **2021**, 153, 108099	7.5	9
28	Cropland conversion changes the status of microbial resource limitation in degraded karst soil. *Geoderma*, **2019**, 352, 197-203	6.7	8
27	Sulfur deposition still contributes to forest soil acidification in the Pearl River Delta, South China, despite the control of sulfur dioxide emission since 2001. *Environmental Science and Pollution Research*, **2019**, 26, 12928-12939	5.1	8
26	Effects of urbanization on plant phosphorus availability in broadleaf and needleleaf subtropical forests. *Science of the Total Environment*, **2019**, 684, 50-57	10.2	7
25	Divergent responses of soil organic carbon accumulation to 14 years of nitrogen addition in two typical subtropical forests. *Science of the Total Environment*, **2020**, 707, 136104	10.2	7
24	Divergent effects of a 6-year warming experiment on the nutrient productivities of subtropical tree species. *Forest Ecology and Management*, **2020**, 461, 117952	3.9	5
23	Effects of phosphorus and nitrogen fertilization on soil arylsulfatase activity and sulfur availability of two tropical plantations in southern China. *Forest Ecology and Management*, **2019**, 453, 117613	3.9	5
22	The Inhibitory Effects of Nitrogen Deposition on Asymbiotic Nitrogen Fixation are Divergent Between a Tropical and a Temperate Forest. *Ecosystems*, **2019**, 22, 955-967	3.9	5
21	A potential source of soil ecoenzymes: From the phyllosphere to soil via throughfall. *Applied Soil Ecology*, **2019**, 139, 25-28	5	4
20	Long-term phosphorus addition downregulates microbial investments on enzyme productions in a mature tropical forest. *Journal of Soils and Sediments*, **2020**, 20, 921-930	3.4	4
19	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. *Applied Soil Ecology*, **2021**, 166, 104009	5	4
18	Topography Modulates Effects of Nitrogen Deposition on Asymbiotic N2 Fixation in Soil but not Litter or Moss in a Secondary Karst Forest. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 3015-3023	3.7	3

17	Long-Term Nitrogen Addition Decreases Soil Carbon Mineralization in an N-Rich Primary Tropical Forest. *Forests*, **2021**, 12, 734	2.8	3
16	Effect of nitrogen addition on DOC leaching and chemical exchanges on canopy leaves in Guangdong Province, China. *Journal of Forestry Research*, **2019**, 30, 1707-1713	2	3
15	13-year nitrogen addition increases nonstructural carbon pools in subtropical forest trees in southern China. *Forest Ecology and Management*, **2021**, 481, 118748	3.9	3
14	Effects of 14-year continuous nitrogen addition on soil arylsulfatase and phosphodiesterase activities in a mature tropical forest. *Global Ecology and Conservation*, **2020**, 22, e00934	2.8	2
13	Long-term effects of 7-year warming experiment in the field on leaf hydraulic and economic traits of subtropical tree species. *Global Change Biology*, **2020**, 26, 7144-7157	11.4	2
12	Adaptation of Soil Fungal Community Structure and Assembly to Long- Versus Short-Term Nitrogen Addition in a Tropical Forest. *Frontiers in Microbiology*, **2021**, 12, 689674	5.7	2
11	Data of ecoenzyme activities in throughfall and rainfall samples taken at five subtropical forests in southern China. *Data in Brief*, **2019**, 26, 103906	1.2	1
10	Microbial assembly adapted to low-P soils in three subtropical forests by increasing the maximum rate of substrate conversion of acid phosphatases but not by decreasing the half-saturation constant. *European Journal of Soil Biology*, **2022**, 108, 103377	2.9	1
9	Characteristics of Dissolved Organic Matter and Dissolved Lignin Phenols in Tropical Forest Soil Solutions during Rainy Seasons and Their Responses to Nitrogen Deposition. *ACS Earth and Space Chemistry*,	3.2	1
8	The responses of carbon- and nitrogen-acquiring enzymes to nitrogen and phosphorus additions in two plantations in southern China. *Journal of Forestry Research*, **2020**, 31, 1319-1324	2	1
7	Retention and partitioning of 15N-labeled deposited N in a tropical plantation forest. *Biogeochemistry*, **2021**, 152, 237-251	3.8	1
6	Negative effects of long-term phosphorus additions on understory plants in a primary tropical forest. *Science of the Total Environment*, **2021**, 798, 149306	10.2	1
5	Divergent responses of soil microbial functional groups to long-term high nitrogen presence in the tropical forests.. *Science of the Total Environment*, **2022**, 153251	10.2	0
4	Unexpected high retention of N-labeled nitrogen in a tropical legume forest under long-term nitrogen enrichment. *Global Change Biology*, **2021**, 28, 1529	11.4	0
3	Leaf hydraulic acclimation to nitrogen addition of two dominant tree species in a subtropical forest. *Science of the Total Environment*, **2021**, 771, 145415	10.2	0
2	Effect of Long-Term Nitrogen and Phosphorus Additions on Understory Plant Nutrients in a Primary Tropical Forest. *Forests*, **2021**, 12, 803	2.8	0
1	Nitrogen addition promotes soil microbial beta diversity and the stochastic assembly. *Science of the Total Environment*, **2022**, 806, 150569	10.2	0