

# Mianhai Zheng

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

6,716  
citations

70961

41  
h-index

64668

79  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen addition promotes soil microbial beta diversity and the stochastic assembly. <i>Science of the Total Environment</i> , 2022, 806, 150569.	3.9	26
2	Unexpected high retention of <sup>15</sup> N-labeled nitrogen in a tropical legume forest under long-term nitrogen enrichment. <i>Global Change Biology</i> , 2022, 28, 1529-1543.	4.2	10
3	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. <i>European Journal of Soil Biology</i> , 2022, 108, 103377.	1.4	6
4	Divergent responses of soil microbial functional groups to long-term high nitrogen presence in the tropical forests. <i>Science of the Total Environment</i> , 2022, 821, 153251.	3.9	9
5	Mycorrhizal fungi and phosphatase involvement in rhizosphere phosphorus transformations improves plant nutrition during subtropical forest succession. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108099.	4.2	56
6	13-year nitrogen addition increases nonstructural carbon pools in subtropical forest trees in southern China. <i>Forest Ecology and Management</i> , 2021, 481, 118748.	1.4	10
7	Retention and partitioning of <sup>15</sup> N-labeled deposited N in a tropical plantation forest. <i>Biogeochemistry</i> , 2021, 152, 237-251.	1.7	4
8	Long-Term Nitrogen Addition Decreases Soil Carbon Mineralization in an N-Rich Primary Tropical Forest. <i>Forests</i> , 2021, 12, 734.	0.9	9
9	Leaf hydraulic acclimation to nitrogen addition of two dominant tree species in a subtropical forest. <i>Science of the Total Environment</i> , 2021, 771, 145415.	3.9	8
10	Effect of Long-Term Nitrogen and Phosphorus Additions on Understory Plant Nutrients in a Primary Tropical Forest. <i>Forests</i> , 2021, 12, 803.	0.9	4
11	Adaptation of Soil Fungal Community Structure and Assembly to Long- Versus Short-Term Nitrogen Addition in a Tropical Forest. <i>Frontiers in Microbiology</i> , 2021, 12, 689674.	1.5	20
12	Soil phosphorus availability affects diazotroph communities during vegetation succession in lowland subtropical forests. <i>Applied Soil Ecology</i> , 2021, 166, 104009.	2.1	11
13	Negative effects of long-term phosphorus additions on understory plants in a primary tropical forest. <i>Science of the Total Environment</i> , 2021, 798, 149306.	3.9	10
14	Characteristics of Dissolved Organic Matter and Dissolved Lignin Phenols in Tropical Forest Soil Solutions during Rainy Seasons and Their Responses to Nitrogen Deposition. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 3150-3158.	1.2	7
15	The responses of carbon- and nitrogen-acquiring enzymes to nitrogen and phosphorus additions in two plantations in southern China. <i>Journal of Forestry Research</i> , 2020, 31, 1319-1324.	1.7	5
16	Long-term phosphorus addition downregulates microbial investments on enzyme productions in a mature tropical forest. <i>Journal of Soils and Sediments</i> , 2020, 20, 921-930.	1.5	15
17	Responses of soil microbial resource limitation to multiple fertilization strategies. <i>Soil and Tillage Research</i> , 2020, 196, 104474.	2.6	54
18	Divergent responses of soil organic carbon accumulation to 14 years of nitrogen addition in two typical subtropical forests. <i>Science of the Total Environment</i> , 2020, 707, 136104.	3.9	12

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19	Substrate stoichiometry determines nitrogen fixation throughout succession in southern Chinese forests. <i>Ecology Letters</i> , 2020, 23, 336-347.	3.0	52
20	Effects of human disturbance activities and environmental change factors on terrestrial nitrogen fixation. <i>Global Change Biology</i> , 2020, 26, 6203-6217.	4.2	35
21	Long-term effects of 7-year warming experiment in the field on leaf hydraulic and economic traits of subtropical tree species. <i>Global Change Biology</i> , 2020, 26, 7144-7157.	4.2	18
22	Global response patterns of plant photosynthesis to nitrogen addition: A meta-analysis. <i>Global Change Biology</i> , 2020, 26, 3585-3600.	4.2	139
23	Responses of Foliar Nutrient Status and Stoichiometry to Nitrogen Addition in Different Ecosystems: A Meta-analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005347.	1.3	25
24	Divergent effects of a 6-year warming experiment on the nutrient productivities of subtropical tree species. <i>Forest Ecology and Management</i> , 2020, 461, 117952.	1.4	8
25	Effects of 14-year continuous nitrogen addition on soil arylsulfatase and phosphodiesterase activities in a mature tropical forest. <i>Global Ecology and Conservation</i> , 2020, 22, e00934.	1.0	9
26	Long-term nitrogen addition modifies microbial composition and functions for slow carbon cycling and increased sequestration in tropical forest soil. <i>Global Change Biology</i> , 2019, 25, 3267-3281.	4.2	121
27	Topography Modulates Effects of Nitrogen Deposition on Asymbiotic N <sub>2</sub> Fixation in Soil but not Litter or Moss in a Secondary Karst Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3015-3023.	1.3	17
28	Effects of phosphorus and nitrogen fertilization on soil arylsulfatase activity and sulfur availability of two tropical plantations in southern China. <i>Forest Ecology and Management</i> , 2019, 453, 117613.	1.4	12
29	Data of ecoenzyme activities in throughfall and rainfall samples taken at five subtropical forests in southern China. <i>Data in Brief</i> , 2019, 26, 103906.	0.5	3
30	Global pattern and controls of biological nitrogen fixation under nutrient enrichment: A meta-analysis. <i>Global Change Biology</i> , 2019, 25, 3018-3030.	4.2	110
31	Cropland conversion changes the status of microbial resource limitation in degraded karst soil. <i>Geoderma</i> , 2019, 352, 197-203.	2.3	20
32	Effects of urbanization on plant phosphorus availability in broadleaf and needleleaf subtropical forests. <i>Science of the Total Environment</i> , 2019, 684, 50-57.	3.9	8
33	Sulfur deposition still contributes to forest soil acidification in the Pearl River Delta, South China, despite the control of sulfur dioxide emission since 2001. <i>Environmental Science and Pollution Research</i> , 2019, 26, 12928-12939.	2.7	11
34	A potential source of soil ecoenzymes: From the phyllosphere to soil via throughfall. <i>Applied Soil Ecology</i> , 2019, 139, 25-28.	2.1	9
35	The Inhibitory Effects of Nitrogen Deposition on Asymbiotic Nitrogen Fixation are Divergent Between a Tropical and a Temperate Forest. <i>Ecosystems</i> , 2019, 22, 955-967.	1.6	9
36	Effect of nitrogen addition on DOC leaching and chemical exchanges on canopy leaves in Guangdong Province, China. <i>Journal of Forestry Research</i> , 2019, 30, 1707-1713.	1.7	4

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37	Effects of long-term nitrogen deposition on phosphorus leaching dynamics in a mature tropical forest. <i>Biogeochemistry</i> , 2018, 138, 215-224.	1.7	40
38	Responses of soil phosphorus availability to nitrogen addition in a legume and a non-legume plantation. <i>Geoderma</i> , 2018, 322, 12-18.	2.3	41
39	Plant acclimation to long-term high nitrogen deposition in an N-rich tropical forest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5187-5192.	3.3	164
40	Responses of soil microbial community to continuous experimental nitrogen additions for 13 years in a nitrogen-rich tropical forest. <i>Soil Biology and Biochemistry</i> , 2018, 121, 103-112.	4.2	173
41	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. <i>Science of the Total Environment</i> , 2018, 610-611, 555-562.	3.9	71
42	Nitrogen addition reduces soil bacterial richness, while phosphorus addition alters community composition in an old-growth N-rich tropical forest in southern China. <i>Soil Biology and Biochemistry</i> , 2018, 127, 22-30.	4.2	84
43	Stoichiometry controls asymbiotic nitrogen fixation and its response to nitrogen inputs in a nitrogen-saturated forest. <i>Ecology</i> , 2018, 99, 2037-2046.	1.5	35
44	Different responses of asymbiotic nitrogen fixation to nitrogen addition between disturbed and rehabilitated subtropical forests. <i>Science of the Total Environment</i> , 2017, 601-602, 1505-1512.	3.9	34
45	Patterns and mechanisms of responses by soil microbial communities to nitrogen addition. <i>Soil Biology and Biochemistry</i> , 2017, 115, 433-441.	4.2	314
46	Effects of long-term nitrogen and phosphorus additions on soil acidification in an N-rich tropical forest. <i>Geoderma</i> , 2017, 285, 57-63.	2.3	95
47	Effects of nitrogen and phosphorus additions on nitrous oxide emission in a nitrogen-rich and two nitrogen-limited tropical forests. <i>Biogeosciences</i> , 2016, 13, 3503-3517.	1.3	25
48	High retention of <sup>15</sup> N-labeled nitrogen deposition in a nitrogen saturated old-growth tropical forest. <i>Global Change Biology</i> , 2016, 22, 3608-3620.	4.2	53
49	Nitrogen saturation in humid tropical forests after 6 years of nitrogen and phosphorus addition: hypothesis testing. <i>Functional Ecology</i> , 2016, 30, 305-313.	1.7	74
50	Effects of nitrogen and phosphorus additions on soil methane uptake in disturbed forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 3089-3100.	1.3	19
51	Effects of phosphorus addition with and without nitrogen addition on biological nitrogen fixation in tropical legume and non-legume tree plantations. <i>Biogeochemistry</i> , 2016, 131, 65-76.	1.7	46
52	Biological nitrogen fixation and its response to nitrogen input in two mature tropical plantations with and without legume trees. <i>Biology and Fertility of Soils</i> , 2016, 52, 665-674.	2.3	43
53	Effects of nitrogen addition on litter decomposition and nutrient release in two tropical plantations with N <sub>2</sub> -fixing vs. non-N <sub>2</sub> -fixing tree species. <i>Plant and Soil</i> , 2016, 399, 61-74.	1.8	47
54	Effects of nitrogen and phosphorus additions on soil microbial biomass and community structure in two reforested tropical forests. <i>Scientific Reports</i> , 2015, 5, 14378.	1.6	60

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55	Phosphate addition enhanced soil inorganic nutrients to a large extent in three tropical forests. <i>Scientific Reports</i> , 2015, 5, 7923.	1.6	17
56	Urbanization in China drives soil acidification of <i>Pinus massoniana</i> forests. <i>Scientific Reports</i> , 2015, 5, 13512.	1.6	15
57	Methane uptake in forest soils along an urban-to-rural gradient in Pearl River Delta, South China. <i>Scientific Reports</i> , 2015, 4, 5120.	1.6	12
58	Urbanization in China changes the composition and main sources of wet inorganic nitrogen deposition. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6526-6534.	2.7	37
59	Effects of nitrogen deposition on carbon cycle in terrestrial ecosystems of China: A meta-analysis. <i>Environmental Pollution</i> , 2015, 206, 352-360.	3.7	92
60	CAN Canopy Addition of Nitrogen Better Illustrate the Effect of Atmospheric Nitrogen Deposition on Forest Ecosystem?. <i>Scientific Reports</i> , 2015, 5, 11245.	1.6	86
61	Divergent Responses of Soil Buffering Capacity to Long-Term N Deposition in Three Typical Tropical Forests with Different Land-Use History. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4072-4080.	4.6	101
62	Responses of soil acid phosphatase and beta-glucosidase to nitrogen and phosphorus addition in two subtropical forests in southern China. <i>European Journal of Soil Biology</i> , 2015, 68, 77-84.	1.4	56
63	Research on acidification in forest soil driven by atmospheric nitrogen deposition. <i>Acta Ecologica Sinica</i> , 2014, 34, 302-310.	0.9	25
64	Nitrogen deposition contributes to soil acidification in tropical ecosystems. <i>Global Change Biology</i> , 2014, 20, 3790-3801.	4.2	398
65	Effects of Experimental Nitrogen and Phosphorus Addition on Litter Decomposition in an Old-Growth Tropical Forest. <i>PLoS ONE</i> , 2013, 8, e84101.	1.1	63
66	Interactive Effects of Nitrogen and Phosphorus on Soil Microbial Communities in a Tropical Forest. <i>PLoS ONE</i> , 2013, 8, e61188.	1.1	120
67	Nutrient Limitation in Three Lowland Tropical Forests in Southern China Receiving High Nitrogen Deposition: Insights from Fine Root Responses to Nutrient Additions. <i>PLoS ONE</i> , 2013, 8, e82661.	1.1	44
68	The <sup>15</sup> N natural abundance of the N lost from an N-saturated subtropical forest in southern China. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
69	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. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
70	Effects of phosphorus addition on soil microbial biomass and community composition in three forest types in tropical China. <i>Soil Biology and Biochemistry</i> , 2012, 44, 31-38.	4.2	379
71	Nitrogen deposition and forest nitrogen cycling along an urban-rural transect in southern China. <i>Global Change Biology</i> , 2011, 17, 872-885.	4.2	182
72	Nitrogen deposition and its ecological impact in China: An overview. <i>Environmental Pollution</i> , 2011, 159, 2251-2264.	3.7	652

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73	Soil-atmosphere exchange of greenhouse gases in subtropical plantations of indigenous tree species. <i>Plant and Soil</i> , 2010, 335, 213-227.	1.8	31
74	Effects of experimental nitrogen additions on plant diversity in an old-growth tropical forest. <i>Global Change Biology</i> , 2010, 16, 2688-2700.	4.2	227
75	Large Loss of Dissolved Organic Nitrogen from Nitrogen-Saturated Forests in Subtropical China. <i>Ecosystems</i> , 2009, 12, 33-45.	1.6	77
76	Effects of elevated nitrogen deposition on soil microbial biomass carbon in major subtropical forests of southern China. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 21-27.	0.2	19
77	Nitrogen leaching in response to increased nitrogen inputs in subtropical monsoon forests in southern China. <i>Forest Ecology and Management</i> , 2009, 257, 332-342.	1.4	90
78	Emissions of nitrous oxide from three tropical forests in Southern China in response to simulated nitrogen deposition. <i>Plant and Soil</i> , 2008, 306, 221-236.	1.8	106
79	Seedling growth response of two tropical tree species to nitrogen deposition in southern China. <i>European Journal of Forest Research</i> , 2008, 127, 275-283.	1.1	66
80	Nitrogen addition reduces soil respiration in a mature tropical forest in southern China. <i>Global Change Biology</i> , 2008, 14, 403-412.	4.2	382
81	Methane uptake responses to nitrogen deposition in three tropical forests in southern China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	61
82	Response of nutrient dynamics of decomposing pine ( <i>Pinus massoniana</i> ) needles to simulated N deposition in a disturbed and a rehabilitated forest in tropical China. <i>Ecological Research</i> , 2007, 22, 649-658.	0.7	30
83	Response of soil respiration to simulated N deposition in a disturbed and a rehabilitated tropical forest in southern China. <i>Plant and Soil</i> , 2007, 296, 125-135.	1.8	68
84	Cumulative effects of nitrogen additions on litter decomposition in three tropical forests in southern China. <i>Plant and Soil</i> , 2007, 297, 233-242.	1.8	96
85	Response of Litter Decomposition to Simulated N Deposition in Disturbed, Rehabilitated and Mature Forests in Subtropical China. <i>Plant and Soil</i> , 2006, 282, 135-151.	1.8	205
86	Old-Growth Forests Can Accumulate Carbon in Soils. <i>Science</i> , 2006, 314, 1417-1417.	6.0	411
87	Nitrogen availability in disturbed, rehabilitated and mature forests of tropical China. <i>Forest Ecology and Management</i> , 2003, 175, 573-583.	1.4	124
88	Structure and Organic Matter Dynamics of a Human-Impacted Pine Forest in a MAB Reserve of Subtropical China. <i>Biotropica</i> , 1995, 27, 276.	0.8	57
89	The Effect of Simulated Nitrogen Deposition on the Emission of Carbonyl Compounds from <i>Ormosia pinnata</i> and <i>Cinnamomum burmannii</i> . <i>Expert Opinion on Environmental Biology</i> , 0, s1, .	0.2	1
90	Long-term nitrogen deposition does not exacerbate soil acidification in tropical broadleaf plantations. <i>Environmental Research Letters</i> , 0, , .	2.2	2