

Biao Zhu

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.

121
papers

4,837
citations

34
h-index

68
g-index

138
ext. papers

6,643
ext. citations

6.6
avg, IF

6.17
L-index

#	Paper	IF	Citations
121	Nitrogen deposition stimulates decomposition via changes in the structure and function of litter food webs. <i>Soil Biology and Biochemistry</i> , 2022 , 166, 108522	7.5	1
120	Terrestrial carbon sinks in China and around the world and their contribution to carbon neutrality.. <i>Science China Life Sciences</i> , 2022 , 1	8.5	9
119	Contrasting effects of warming and N deposition on soil microbial functional genes in a subtropical forest. <i>Geoderma</i> , 2022 , 408, 115588	6.7	1
118	Drying-rewetting rather than sieving stimulates soil respiration. <i>Pedosphere</i> , 2022 , 32, 359-363	5	0
117	Climate warming in an alpine meadow: differential responses of soil faunal vs. microbial effects on litter decomposition. <i>Biology and Fertility of Soils</i> , 2022 , 58, 509-514	6.1	0
116	Effects of nitrogen and phosphorus enrichment on soil NO emission from natural ecosystems: A global meta-analysis.. <i>Environmental Pollution</i> , 2022 , 118993	9.3	1
115	Resistant soil carbon is more vulnerable to priming effect than active soil carbon. <i>Soil Biology and Biochemistry</i> , 2022 , 168, 108619	7.5	0
114	Decreasing microbial phosphorus limitation increases soil carbon release. <i>Geoderma</i> , 2022 , 419, 115868	6.7	2
113	The influence of aboveground and belowground species composition on spatial turnover in nutrient pools in alpine grasslands. <i>Global Ecology and Biogeography</i> , 2022 , 31, 486-500	6.1	0
112	Phosphorus addition decreases plant lignin but increases microbial necromass contribution to soil organic carbon in a subalpine forest.. <i>Global Change Biology</i> , 2022 ,	11.4	1
111	Root phosphatase aligns with the collaboration gradient of the root economics space. <i>New Phytologist</i> , 2021 ,	9.8	5
110	Changes in soil total, microbial and enzymatic C-N-P contents and stoichiometry with depth and latitude in forest ecosystems. <i>Science of the Total Environment</i> , 2021 , 151583	10.2	2
109	Warming has a minor effect on surface soil organic carbon in alpine meadow ecosystems on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2021 ,	11.4	2
108	Loss of soil microbial residue carbon by converting a tropical forest to tea plantation. <i>Science of the Total Environment</i> , 2021 , 151742	10.2	0
107	Mycorrhizal mycelial respiration: A substantial component of soil respired CO ₂ . <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108454	7.5	0
106	Soil priming effect and its responses to nutrient addition along a tropical forest elevation gradient. <i>Global Change Biology</i> , 2021 , 27, 2793-2806	11.4	12
105	Rhizosphere Effects of Maize and Wheat Increase Soil Organic and Inorganic Carbon Release in Carbonate-Rich Soils: A Three-Source ¹³ C Partitioning Study. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	3

104	Arbuscular mycorrhizal trees cause a higher carbon to nitrogen ratio of soil organic matter decomposition via rhizosphere priming than ectomycorrhizal trees. <i>Soil Biology and Biochemistry</i> , 2021 , 157, 108246	7.5	7
103	Does calculation method affect the nutrient-addition effect on priming?. <i>Geoderma</i> , 2021 , 393, 115040	6.7	1
102	Effects of nitrogen addition on microbial residues and their contribution to soil organic carbon in China's forests from tropical to boreal zone. <i>Environmental Pollution</i> , 2021 , 268, 115941	9.3	11
101	Root exudation as a major competitive fine-root functional trait of 18 coexisting species in a subtropical forest. <i>New Phytologist</i> , 2021 , 229, 259-271	9.8	23
100	Linking root respiration to chemistry and morphology across species. <i>Global Change Biology</i> , 2021 , 27, 190-201	11.4	12
99	Root effects on soil organic carbon: a double-edged sword. <i>New Phytologist</i> , 2021 , 230, 60-65	9.8	32
98	Global patterns and associated drivers of priming effect in response to nutrient addition. <i>Soil Biology and Biochemistry</i> , 2021 , 153, 108118	7.5	24
97	Changes in microbial biomass, community composition and diversity, and functioning with soil depth in two alpine ecosystems on the Tibetan plateau. <i>Plant and Soil</i> , 2021 , 459, 137-153	4.2	11
96	Warming and grazing interact to affect root dynamics in an alpine meadow. <i>Plant and Soil</i> , 2021 , 459, 109-124	4.2	1
95	Particulate organic carbon is more vulnerable to nitrogen addition than mineral-associated organic carbon in soil of an alpine meadow. <i>Plant and Soil</i> , 2021 , 458, 93-103	4.2	4
94	Changes of soil organic matter stability along altitudinal gradients in Tibetan alpine grassland. <i>Plant and Soil</i> , 2021 , 458, 21-40	4.2	6
93	Inconsistent responses of soil microbial community structure and enzyme activity to nitrogen and phosphorus additions in two tropical forests. <i>Plant and Soil</i> , 2021 , 460, 453-468	4.2	6
92	Rhizosphere effects of woody plants on soil biogeochemical processes: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108310	7.5	10
91	Aboveground litter properties determined the POC Root functional traits mediate rhizosphere soil carbon stability in a subtropical forest. <i>Soil Biology and Biochemistry</i> , 2021 , 108431	7.5	1
90	Plateau pika offsets the positive effects of warming on soil organic carbon in an alpine swamp meadow on the Tibetan Plateau. <i>Catena</i> , 2021 , 204, 105417	5.8	2
89	Nitrogen addition stimulates priming effect in a subtropical forest soil. <i>Soil Biology and Biochemistry</i> , 2021 , 160, 108339	7.5	0
88	Soil N ₂ O emissions are more sensitive to phosphorus addition and plant presence than to nitrogen addition and arbuscular mycorrhizal fungal inoculation. <i>Rhizosphere</i> , 2021 , 19, 100414	3.5	1
87	Plant and microbial regulations of soil carbon dynamics under warming in two alpine swamp meadow ecosystems on the Tibetan Plateau. <i>Science of the Total Environment</i> , 2021 , 790, 148072	10.2	7

86	Plant inputs mediate the linkage between soil carbon and net nitrogen mineralization. <i>Science of the Total Environment</i> , 2021 , 790, 148208	10.2	2
85	Arbuscular mycorrhizal fungi reduce soil nitrous oxide emission. <i>Geoderma</i> , 2021 , 402, 115179	6.7	6
84	Responses of soil microbial biomass carbon and dissolved organic carbon to drying-rewetting cycles: A meta-analysis. <i>Catena</i> , 2021 , 207, 105610	5.8	3
83	Root and mycorrhizal strategies for nutrient acquisition in forests under nitrogen deposition: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108418	7.5	4
82	Changes in soil greenhouse gas fluxes by land use change from primary forest. <i>Global Change Biology</i> , 2020 , 26, 2656	11.4	38
81	Nitrogen addition has contrasting effects on particulate and mineral-associated soil organic carbon in a subtropical forest. <i>Soil Biology and Biochemistry</i> , 2020 , 142, 107708	7.5	27
80	Effects of warming on carbon and nitrogen cycling in alpine grassland ecosystems on the Tibetan Plateau: A meta-analysis. <i>Geoderma</i> , 2020 , 370, 114363	6.7	29
79	Techniques and methods for field warming manipulation experiments in terrestrial ecosystems. <i>Chinese Journal of Plant Ecology</i> , 2020 , 44, 330-339	1.2	2
78	Temperature sensitivity of decomposition of soil organic matter fractions increases with their turnover time. <i>Land Degradation and Development</i> , 2020 , 31, 632-645	4.4	15
77	Soil microbial carbon and nutrient constraints are driven more by climate and soil physicochemical properties than by nutrient addition in forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2020 , 141, 107657	7.5	30
76	Responses of soil carbon decomposition to drying-rewetting cycles: A meta-analysis. <i>Geoderma</i> , 2020 , 361, 114069	6.7	19
75	Effects of seven-year nitrogen and phosphorus additions on soil microbial community structures and residues in a tropical forest in Hainan Island, China. <i>Geoderma</i> , 2020 , 361, 114034	6.7	19
74	Sensitivity of soil carbon dynamics to nitrogen and phosphorus enrichment in an alpine meadow. <i>Soil Biology and Biochemistry</i> , 2020 , 150, 107984	7.5	14
73	Responses of arbuscular mycorrhizal fungi to nitrogen addition: A meta-analysis. <i>Global Change Biology</i> , 2020 , 26, 7229-7241	11.4	25
72	Root functional traits are key determinants of the rhizosphere effect on soil organic matter decomposition across 14 temperate hardwood species. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108019	7.5	28
71	Linking absorptive roots and their functional traits with rhizosphere priming of tree species. <i>Soil Biology and Biochemistry</i> , 2020 , 150, 107997	7.5	9
70	Dynamics of microbial residues control the responses of mineral-associated soil organic carbon to N addition in two temperate forests. <i>Science of the Total Environment</i> , 2020 , 748, 141318	10.2	10
69	Resource enrichment combined with biomass removal maintains plant diversity and community stability in a long-term grazed grassland. <i>Journal of Plant Ecology</i> , 2020 , 13, 611-620	1.7	4

68	Patterns and determinants of soil microbial residues from tropical to boreal forests. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108059	7.5	16
67	Changes in soil organic matter stability with depth in two alpine ecosystems on the Tibetan Plateau. <i>Geoderma</i> , 2019 , 351, 153-162	6.7	23
66	Measuring rhizosphere effects of two tree species in a temperate forest: A comprehensive method comparison. <i>Rhizosphere</i> , 2019 , 10, 100153	3.5	4
65	Methodological clarification for estimating the input of plant-derived carbon in soils under elevated CO ₂ based on a ¹³ C-enriched CO ₂ labeling experiment. <i>Plant and Soil</i> , 2019 , 440, 569-580	4.2	1
64	A global meta-analysis of soil respiration and its components in response to phosphorus addition. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 38-47	7.5	38
63	Linking rhizosphere respiration rate of three grassland species with root nitrogen concentration. <i>Geoderma</i> , 2019 , 346, 84-90	6.7	4
62	Minor responses of soil microbial biomass, community structure and enzyme activities to nitrogen and phosphorus addition in three grassland ecosystems. <i>Plant and Soil</i> , 2019 , 444, 21-37	4.2	18
61	Regulation of priming effect by soil organic matter stability over a broad geographic scale. <i>Nature Communications</i> , 2019 , 10, 5112	17.4	75
60	Effects of nitrogen fertilization on pot-grown wheat photosynthate partitioning within intensively farmed soil determined by ¹³ C pulse-labeling. <i>Journal of Plant Nutrition and Soil Science</i> , 2019 , 182, 896-907	3.3	2
59	Variation of C and N enrichments in different plant components of labeled winter wheat (L.). <i>PeerJ</i> , 2019 , 7, e7738	3.1	1
58	Tropical forest soils serve as substantial and persistent methane sinks. <i>Scientific Reports</i> , 2019 , 9, 16799	4.9	9
57	Microbial-accessibility-dependent electron shuttling of in situ solid-phase organic matter in soils. <i>Geoderma</i> , 2019 , 338, 1-4	6.7	6
56	Light intensity controls rhizosphere respiration rate and rhizosphere priming effect of soybean and sunflower. <i>Rhizosphere</i> , 2019 , 9, 97-105	3.5	8
55	Rhizosphere priming effects on soil carbon and nitrogen dynamics among tree species with and without intraspecific competition. <i>New Phytologist</i> , 2018 , 218, 1036-1048	9.8	50
54	Shifting plant species composition in response to climate change stabilizes grassland primary production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4051-4056	11.5	208
53	The effects of heating, rhizosphere, and depth on root litter decomposition are mediated by soil moisture. <i>Biogeochemistry</i> , 2018 , 137, 267-279	3.8	11
52	Root litter decomposition slows with soil depth. <i>Soil Biology and Biochemistry</i> , 2018 , 125, 103-114	7.5	61
51	A meta-analysis of soil extracellular enzyme activities in response to global change. <i>Soil Biology and Biochemistry</i> , 2018 , 123, 21-32	7.5	134

50	The response of tree growth to nitrogen and phosphorus additions in a tropical montane rainforest. <i>Science of the Total Environment</i> , 2018 , 618, 1064-1070	10.2	26
49	Soil enzymatic responses to multiple environmental drivers in the Tibetan grasslands: Insights from two manipulative field experiments and a meta-analysis. <i>Pedobiologia</i> , 2018 , 71, 50-58	1.7	6
48	Greater variations of rhizosphere effects within mycorrhizal group than between mycorrhizal group in a temperate forest. <i>Soil Biology and Biochemistry</i> , 2018 , 126, 237-246	7.5	27
47	Patterns of soil respiration and its temperature sensitivity in grassland ecosystems across China. <i>Biogeosciences</i> , 2018 , 15, 5329-5341	4.6	12
46	Physico-chemical protection, rather than biochemical composition, governs the responses of soil organic carbon decomposition to nitrogen addition in a temperate agroecosystem. <i>Science of the Total Environment</i> , 2017 , 598, 282-288	10.2	27
45	Effects of nitrogen deposition on soil microbial communities in temperate and subtropical forests in China. <i>Science of the Total Environment</i> , 2017 , 607-608, 1367-1375	10.2	46
44	Nitrogen deposition has minor effect on soil extracellular enzyme activities in six Chinese forests. <i>Science of the Total Environment</i> , 2017 , 607-608, 806-815	10.2	59
43	Growth responses of trees and understory plants to nitrogen fertilization in a subtropical forest in China. <i>Biogeosciences</i> , 2017 , 14, 3461-3469	4.6	24
42	Plant Debris and Its Contribution to Ecosystem Carbon Storage in Successional Larix gmelinii Forests in Northeastern China. <i>Forests</i> , 2017 , 8, 191	2.8	6
41	Precipitation overrides warming in mediating soil nitrogen pools in an alpine grassland ecosystem on the Tibetan Plateau. <i>Scientific Reports</i> , 2016 , 6, 31438	4.9	22
40	Neutral effect of nitrogen addition and negative effect of phosphorus addition on topsoil extracellular enzymatic activities in an alpine grassland ecosystem. <i>Applied Soil Ecology</i> , 2016 , 107, 205-213	5.1	51
39	Asynchronous responses of soil carbon dioxide, nitrous oxide emissions and net nitrogen mineralization to enhanced fine root input. <i>Soil Biology and Biochemistry</i> , 2016 , 92, 67-78	7.5	16
38	Labile substrate availability controls temperature sensitivity of organic carbon decomposition at different soil depths. <i>Biogeochemistry</i> , 2015 , 126, 85-98	3.8	31
37	Nitrogen fertilization has minimal influence on rhizosphere effects of smooth crabgrass (<i>Digitaria ischaemum</i>) and bermudagrass (<i>Cynodon dactylon</i>). <i>Journal of Plant Ecology</i> , 2015 , 8, 390-400	1.7	14
36	Decadally cycling soil carbon is more sensitive to warming than faster-cycling soil carbon. <i>Global Change Biology</i> , 2015 , 21, 4602-12	11.4	26
35	Complementarity in nutrient foraging strategies of absorptive fine roots and arbuscular mycorrhizal fungi across 14 coexisting subtropical tree species. <i>New Phytologist</i> , 2015 , 208, 125-36	9.8	121
34	A call for international soil experiment networks for studying, predicting, and managing global change impacts. <i>Soil</i> , 2015 , 1, 575-582	5.8	11
33	Rhizosphere priming effects on soil carbon and nitrogen mineralization. <i>Soil Biology and Biochemistry</i> , 2014 , 76, 183-192	7.5	207

32	The effects of simulated nitrogen deposition on extracellular enzyme activities of litter and soil among different-aged stands of larch. <i>Journal of Plant Ecology</i> , 2014 , 7, 240-249	1.7	23
31	A microbial link between elevated CO ₂ and methane emissions that is plant species-specific. <i>Microbial Ecology</i> , 2013 , 66, 621-9	4.4	12
30	Responses of soil respiration and its temperature sensitivity to thinning in a pine plantation. <i>Agricultural and Forest Meteorology</i> , 2013 , 171-172, 57-64	5.8	49
29	Impacts of drying-wetting cycles on rhizosphere respiration and soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2013 , 63, 89-96	7.5	46
28	Vegetation and Soil 15N Natural Abundance in Alpine Grasslands on the Tibetan Plateau: Patterns and Implications. <i>Ecosystems</i> , 2013 , 16, 1013-1024	3.9	21
27	Plant inter-species effects on rhizosphere priming of soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2013 , 57, 91-99	7.5	71
26	A dual isotope approach to isolate soil carbon pools of different turnover times. <i>Biogeosciences</i> , 2013 , 10, 8067-8081	4.6	42
25	Nodulated soybean enhances rhizosphere priming effects on soil organic matter decomposition more than non-nodulated soybean. <i>Soil Biology and Biochemistry</i> , 2012 , 51, 56-65	7.5	44
24	Impacts of climate and CO ₂ changes on the vegetation growth and carbon balance of Qinghai-Tibetan grasslands over the past five decades. <i>Global and Planetary Change</i> , 2012 , 98-99, 73-80	4.2	171
23	The carbon budget of terrestrial ecosystems in East Asia over the last two decades. <i>Biogeosciences</i> , 2012 , 9, 3571-3586	4.6	83
22	Geographical patterns of community-based tree species richness in Chinese mountain forests: the effects of contemporary climate and regional history. <i>Ecography</i> , 2012 , 35, 1134-1146	6.5	21
21	Inventory-based estimation of aboveground net primary production in Japan's forests from 1980 to 2005. <i>Biogeosciences</i> , 2011 , 8, 2099-2106	4.6	8
20	Rhizosphere priming effect increases the temperature sensitivity of soil organic matter decomposition. <i>Global Change Biology</i> , 2011 , 17, 2172-2183	11.4	142
19	Changes in satellite-derived vegetation growth trend in temperate and boreal Eurasia from 1982 to 2006. <i>Global Change Biology</i> , 2011 , 17, 3228-3239	11.4	451
18	Constant and diurnally-varying temperature regimes lead to different temperature sensitivities of soil organic carbon decomposition. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 866-869	7.5	36
17	¹³ C isotope fractionation during rhizosphere respiration of C ₃ and C ₄ plants. <i>Plant and Soil</i> , 2011 , 342, 277-287	4.2	35
16	Altitudinal changes in carbon storage of temperate forests on Mt Changbai, Northeast China. <i>Journal of Plant Research</i> , 2010 , 123, 439-52	2.6	95
15	Quantifying the response of forest carbon balance to future climate change in Northeastern China: Model validation and prediction. <i>Global and Planetary Change</i> , 2009 , 66, 179-194	4.2	87

14	Footprint of temperature changes in the temperate and boreal forest carbon balance. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	34
13	Storage, patterns and controls of soil organic carbon in the Tibetan grasslands. <i>Global Change Biology</i> , 2008 , 14, 1592-1599	11.4	354
12	Forest biomass and root:shoot allocation in northeast China. <i>Forest Ecology and Management</i> , 2008 , 255, 4007-4020	3.9	105
11	Carbon budgets of three temperate forest ecosystems in Dongling Mt., Beijing, China. <i>Science in China Series D: Earth Sciences</i> , 2007 , 50, 92-101		40
10	Climatic control of primary forest structure and DBH:height allometry in Northeast China. <i>Forest Ecology and Management</i> , 2006 , 234, 264-274	3.9	106
9	Variations in satellite-derived phenology in China's temperate vegetation. <i>Global Change Biology</i> , 2006 , 12, 672-685	11.4	505
8	Changes in vegetation net primary productivity from 1982 to 1999 in China. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	185
7	NDVI-indicated decline in desertification in China in the past two decades. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	102
6	Forest biomass carbon stocks in China over the past 2 decades: Estimation based on integrated inventory and satellite data. <i>Journal of Geophysical Research</i> , 2005 , 110,		77
5	Resistant soil organic carbon is more vulnerable to priming by root exudate fractions than relatively active soil organic carbon. <i>Plant and Soil</i> ,1	4.2	1
4	The rhizosphere effect on soil gross nitrogen mineralization: A meta-analysis. <i>Soil Ecology Letters</i> ,1	2.7	3
3	Seasonal changes in soil properties, microbial biomass and enzyme activities across the soil profile in two alpine ecosystems. <i>Soil Ecology Letters</i> ,1	2.7	1
2	Responses of soil microbial carbon use efficiency to warming: Review and prospects. <i>Soil Ecology Letters</i> ,1	2.7	0
1	Influencing factors and partitioning methods of carbonate contribution to CO ₂ emissions from calcareous soils. <i>Soil Ecology Letters</i> ,	2.7	0