Zhenhua Zhang

List of Publications by Year
in descending order

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53 papers	2,423 citations	331670 21 h-index	214800 47 g-index
55 all docs	55 docs citations	55 times ranked	2401 citing authors

#	Article	IF	Citations
1	Shifting plant species composition in response to climate change stabilizes grassland primary production. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4051-4056.	7.1	431
2	Climate warming reduces the temporal stability of plant community biomass production. Nature Communications, 2017, 8, 15378.	12.8	348
3	Effects of warming and grazing on soil N availability, species composition, and ANPP in an alpine meadow. Ecology, 2012, 93, 2365-2376.	3.2	305
4	Effect of warming and grazing on litter mass loss and temperature sensitivity of litter and dung mass loss on the Tibetan plateau. Global Change Biology, 2010, 16, 1606-1617.	9.5	163
5	Climate warming alters subsoil but not topsoil carbon dynamics in alpine grassland. Global Change Biology, 2019, 25, 4383-4393.	9.5	94
6	Effects of warming, grazing/cutting and nitrogen fertilization on greenhouse gas fluxes during growing seasons in an alpine meadow on the Tibetan Plateau. Agricultural and Forest Meteorology, 2015, 214-215, 506-514.	4.8	90
7	Molecular mechanisms of water table lowering and nitrogen deposition in affecting greenhouse gas emissions from a Tibetan alpine wetland. Global Change Biology, 2017, 23, 815-829.	9.5	75
8	Asymmetric winter warming advanced plant phenology to a greater extent than symmetric warming in an alpine meadow. Functional Ecology, 2017, 31, 2147-2156.	3.6	61
9	Responses of sequential and hierarchical phenological events to warming and cooling in alpine meadows. Nature Communications, 2016, 7, 12489.	12.8	60
10	Inactive and inefficient: Warming and drought effect on microbial carbon processing in alpine grassland at depth. Global Change Biology, 2021, 27, 2241-2253.	9.5	48
11	Soil bacterial community responses to warming and grazing in a Tibetan alpine meadow. FEMS Microbiology Ecology, 2016, 92, fiv152.	2.7	47
12	Effects of Soil Temperature and Moisture on Soil Respiration on the Tibetan Plateau. PLoS ONE, 2016, 11, e0165212.	2.5	41
13	Experimentally simulating warmer and wetter climate additively improves rangeland quality on the Tibetan Plateau. Journal of Applied Ecology, 2018, 55, 1486-1497.	4.0	38
14	Contrasting effects of nitrogen and phosphorus addition on soil respiration in an alpine grassland on the Qinghai-Tibetan Plateau. Scientific Reports, 2016, 6, 34786.	3.3	37
15	Experimental Warming Increases Seasonal Methane Uptake in an Alpine Meadow on the Tibetan Plateau. Ecosystems, 2015, 18, 274-286.	3.4	33
16	Effects of litter quality and climate change along an elevation gradient on litter mass loss in an alpine meadow ecosystem on the Tibetan plateau. Plant Ecology, 2010, 209, 257-268.	1.6	31
17	Precipitation overrides warming in mediating soil nitrogen pools in an alpine grassland ecosystem on the Tibetan Plateau. Scientific Reports, 2016, 6, 31438.	3.3	31
18	Methane emission by plant communities in an alpine meadow on the Qinghai-Tibetan Plateau: a new experimental study of alpine meadows and oat pasture. Biology Letters, 2009, 5, 535-538.	2.3	29

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19	Impacts of seasonal grazing on net ecosystem carbon exchange in alpine meadow on the Tibetan Plateau. Plant and Soil, 2015, 396, 381-395.	3.7	26
20	Grazing intensifies degradation of a Tibetan Plateau alpine meadow through plantâ€“pest interaction. Ecology and Evolution, 2015, 5, 2478-2486.	1.9	24
21	Microbial community responses reduce soil carbon loss in Tibetan alpine grasslands under shortâ€term warming. Global Change Biology, 2019, 25, 3438-3449.	9.5	24
22	Opposite effects of winter day and night temperature changes on early phenophases. Ecology, 2019, 100, e02775.	3.2	24
23	Simulating warmer and drier climate increases root production but decreases root decomposition in an alpine grassland on the Tibetan plateau. Plant and Soil, 2021, 458, 59-73.	3.7	24
24	Climate change affects soil labile organic carbon fractions in a Tibetan alpine meadow. Journal of Soils and Sediments, 2017, 17, 326-339.	3.0	22
25	Alpine Grassland Soil Organic Carbon Stock and Its Uncertainty in the Three Rivers Source Region of the Tibetan Plateau. PLoS ONE, 2014, 9, e97140.	2.5	20
26	Changes in litter quality induced by nutrient addition alter litter decomposition in an alpine meadow on the Qinghai-Tibet Plateau. Scientific Reports, 2016, 6, 34290.	3.3	19
27	Differential response to warming of the uptake of nitrogen by plant species in non-degraded and degraded alpine grasslands. Journal of Soils and Sediments, 2019, 19, 2212-2221.	3.0	19
28	Net neutral carbon responses to warming and grazing in alpine grassland ecosystems. Agricultural and Forest Meteorology, 2020, 280, 107792.	4.8	19
29	Effects of grazing on the acquisition of nitrogen by plants and microorganisms in an alpine grassland on the Tibetan plateau. Plant and Soil, 2017, 416, 297-308.	3.7	18
30	Annual ecosystem respiration is resistant to changes in freezeâ€“thaw periods in semiâ€arid permafrost. Global Change Biology, 2020, 26, 2630-2641.	9.5	18
31	Phosphorus alleviation of nitrogenâ€suppressed methane sink in global grasslands. Ecology Letters, 2020, 23, 821-830.	6.4	18
32	Phosphorus does not alleviate the negative effect of nitrogen enrichment on legume performance in an alpine grassland. Journal of Plant Ecology, 0, , rtw089.	2.3	15
33	Effects of seeding ratios and nitrogen fertilizer on ecosystem respiration of common vetch and oat on the Tibetan plateau. Plant and Soil, 2013, 362, 287-299.	3.7	14
34	Plant organic N uptake maintains species dominance under long-term warming. Plant and Soil, 2018, 433, 243-255.	3.7	13
35	Richness of plant communities plays a larger role than climate in determining responses of species richness to climate change. Journal of Ecology, 2019, 107, 1944-1955.	4.0	12
36	Foliar fungal diseases respond differently to nitrogen and phosphorus additions in Tibetan alpine meadows. Ecological Research, 2020, 35, 162-169.	1.5	11

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37	Microbial Functional Responses Explain Alpine Soil Carbon Fluxes under Future Climate Scenarios. MBio, 2021, 12, .	4.1	10
38	Asymmetric responses of methane uptake to climate warming and cooling of a Tibetan alpine meadow assessed through a reciprocal translocation along an elevation gradient. Plant and Soil, 2016, 402, 263-275.	3.7	9
39	Exploring effective sampling design for monitoring soil organic carbon in degraded Tibetan grasslands. Journal of Environmental Management, 2016, 173, 121-126.	7.8	9
40	Greenhouse Gas Emissions from the Tibetan Alpine Grassland: Effects of Nitrogen and Phosphorus Addition. Sustainability, 2018, 10, 4454.	3.2	9
41	Enhanced spring temperature sensitivity of carbon emission links to earlier phenology. Science of the Total Environment, 2020, 745, 140999.	8.0	9
42	Ambient climate determines the directional trend of community stability under warming and grazing. Global Change Biology, 2021, 27, 5198-5210.	9.5	9
43	Divergent Responses of Community Reproductive and Vegetative Phenology to Warming and Cooling: Asymmetry Versus Symmetry. Frontiers in Plant Science, 2019, 10, 1310.	3.6	8
44	Temperature sensitivity thresholds to warming and cooling in phenophases of alpine plants. Climatic Change, 2016, 139, 579-590.	3.6	7
45	Variations of N2O fluxes in response to warming and cooling in an alpine meadow on the Tibetan Plateau. Climatic Change, 2017, 143, 129-142.	3.6	7
46	Nitrous oxide emissions from different land uses affected by managements on the Qinghai-Tibetan Plateau. Agricultural and Forest Meteorology, 2017, 246, 133-141.	4.8	7
47	Fungal pathogens pose a potential threat to animal and plant health in desertified and pika-burrowed alpine meadows on the Tibetan Plateau. Canadian Journal of Microbiology, 2019, 65, 365-376.	1.7	7
48	Abiotic and biotic controls of soil dissolved organic nitrogen along a precipitation gradient on the Tibetan plateau. Plant and Soil, 2021, 459, 65-78.	3.7	7
49	Warming and grazing enhance litter decomposition and nutrient release independent of litter quality in an alpine meadow. Journal of Plant Ecology, 2022, 15, 977-990.	2.3	7
50	Responses of biotic interactions of dominant and subordinate species to decadal warming and simulated rotational grazing in Tibetan alpine meadow. Science China Life Sciences, 2018, 61, 849-859.	4.9	6
51	Decreased soil substrate availability with incubation time weakens the response of microbial respiration to high temperature in an alpine meadow on the Tibetan Plateau. Journal of Soils and Sediments, 2019, 19, 255-262.	3.0	5
52	Effects of land use and nitrogen fertilizer on ecosystem respiration in alpine meadow on the Tibetan Plateau. Journal of Soils and Sediments, 2017, 17, 1626-1634.	3.0	4
53	Greater responses of flower phenology of Kobresia pygmaea community to precipitation addition than to constant and stepwise warming. Journal of Plant Ecology, 0, , .	2.3	1