

Dima Chen

List of Publications by Citations

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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.

57
papers

2,006
citations

25
h-index

44
g-index

65
ext. papers

2,816
ext. citations

5.9
avg, IF

4.95
L-index

#	Paper	IF	Citations
57	Plant diversity enhances productivity and soil carbon storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4027-4032	11.5	170
56	Evidence that acidification-induced declines in plant diversity and productivity are mediated by changes in below-ground communities and soil properties in a semi-arid steppe. <i>Journal of Ecology</i> , 2013 , 101, 1322-1334	6	139
55	Effects of nitrogen enrichment on belowground communities in grassland: Relative role of soil nitrogen availability vs. soil acidification. <i>Soil Biology and Biochemistry</i> , 2015 , 89, 99-108	7.5	124
54	Patterns of plant carbon, nitrogen, and phosphorus concentration in relation to productivity in China's terrestrial ecosystems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4033-4038	11.5	112
53	Soil acidification exerts a greater control on soil respiration than soil nitrogen availability in grasslands subjected to long-term nitrogen enrichment. <i>Functional Ecology</i> , 2016 , 30, 658-669	5.6	103
52	Differential responses of soil bacterial communities to long-term N and P inputs in a semi-arid steppe. <i>Geoderma</i> , 2017 , 292, 25-33	6.7	96
51	Divergent accumulation of microbial necromass and plant lignin components in grassland soils. <i>Nature Communications</i> , 2018 , 9, 3480	17.4	95
50	Patterns and drivers of soil microbial communities along a precipitation gradient on the Mongolian Plateau. <i>Landscape Ecology</i> , 2015 , 30, 1669-1682	4.3	80
49	Reconciling multiple impacts of nitrogen enrichment on soil carbon: plant, microbial and geochemical controls. <i>Ecology Letters</i> , 2018 , 21, 1162-1173	10	75
48	Seasonally dependent impacts of grazing on soil nitrogen mineralization and linkages to ecosystem functioning in Inner Mongolia grassland. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 1943-1954	7.5	74
47	Direct and indirect effects of nitrogen enrichment on soil organisms and carbon and nitrogen mineralization in a semi-arid grassland. <i>Functional Ecology</i> , 2019 , 33, 175-187	5.6	63
46	Vertebrate herbivore-induced changes in plants and soils: linkages to ecosystem functioning in a semi-arid steppe. <i>Functional Ecology</i> , 2013 , 27, 273-281	5.6	56
45	Subtropical plantations are large carbon sinks: Evidence from two monoculture plantations in South China. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 1214-1225	5.8	56
44	Regional-scale patterns of soil microbes and nematodes across grasslands on the Mongolian plateau: relationships with climate, soil, and plants. <i>Ecography</i> , 2015 , 38, 622-631	6.5	49
43	Functional correlations between specific leaf area and specific root length along a regional environmental gradient in Inner Mongolia grasslands. <i>Functional Ecology</i> , 2016 , 30, 985-997	5.6	47
42	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. <i>Journal of Ecology</i> , 2016 , 104, 734-743	6	35
41	Understory plants can make substantial contributions to soil respiration: Evidence from two subtropical plantations. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2355-2357	7.5	32

40	Effects of grazing on spatiotemporal variations in community structure and ecosystem function on the grasslands of Inner Mongolia, China. <i>Scientific Reports</i> , 2017 , 7, 40	4.9	31
39	Stand level estimation of root respiration for two subtropical plantations based on in situ measurement of specific root respiration. <i>Forest Ecology and Management</i> , 2009 , 257, 2088-2097	3.9	29
38	Root microbiome changes with root branching order and root chemistry in peach rhizosphere soil. <i>Rhizosphere</i> , 2020 , 16, 100249	3.5	28
37	Biotic community shifts explain the contrasting responses of microbial and root respiration to experimental soil acidification. <i>Soil Biology and Biochemistry</i> , 2015 , 90, 139-147	7.5	27
36	Effects of aridity on soil microbial communities and functions across soil depths on the Mongolian Plateau. <i>Functional Ecology</i> , 2019 , 33, 1561-1571	5.6	26
35	Effects of root diameter and root nitrogen concentration on in situ root respiration among different seasons and tree species. <i>Ecological Research</i> , 2010 , 25, 983-993	1.9	26
34	Nitrogen-induced acidification, not N-nutrient, dominates suppressive N effects on arbuscular mycorrhizal fungi. <i>Global Change Biology</i> , 2020 , 26, 6568-6580	11.4	26
33	Changes in belowground carbon in <i>Acacia crassicarpa</i> and <i>Eucalyptus urophylla</i> plantations after tree girdling. <i>Plant and Soil</i> , 2010 , 326, 123-135	4.2	25
32	Response of soil respiration and ecosystem carbon budget to vegetation removal in <i>Eucalyptus</i> plantations with contrasting ages. <i>Scientific Reports</i> , 2014 , 4, 6262	4.9	24
31	Continuous Cropping Alters Multiple Biotic and Abiotic Indicators of Soil Health. <i>Soil Systems</i> , 2020 , 4, 59	3.5	24
30	Cover crop diversity improves multiple soil properties via altering root architectural traits. <i>Rhizosphere</i> , 2020 , 16, 100248	3.5	23
29	Grazing simplifies soil micro-food webs and decouples their relationships with ecosystem functions in grasslands. <i>Global Change Biology</i> , 2020 , 26, 960-970	11.4	22
28	Large-Scale Distribution of Molecular Components in Chinese Grassland Soils: The Influence of Input and Decomposition Processes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 239-255	3.7	21
27	Tree girdling affects the soil microbial community by modifying resource availability in two subtropical plantations. <i>Applied Soil Ecology</i> , 2012 , 53, 108-115	5	21
26	CO ₂ -induced alterations in plant nitrate utilization and root exudation stimulate N ₂ O emissions. <i>Soil Biology and Biochemistry</i> , 2017 , 106, 9-17	7.5	20
25	Predominant control of moisture on soil organic carbon mineralization across a broad range of arid and semiarid ecosystems on the Mongolia plateau. <i>Landscape Ecology</i> , 2015 , 30, 1683-1699	4.3	20
24	Effect of diversity on biomass across grasslands on the Mongolian Plateau: contrasting effects between plants and soil nematodes. <i>Journal of Biogeography</i> , 2016 , 43, 955-966	4.1	19
23	Using structural equation modeling to test established theory and develop novel hypotheses for the structuring forces in soil food webs. <i>Pedobiologia</i> , 2015 , 58, 137-145	1.7	17

22	Soil acidification reduces the effects of short-term nutrient enrichment on plant and soil biota and their interactions in grasslands. <i>Global Change Biology</i> , 2020 , 26, 4626-4637	11.4	17
21	Deepened winter snow cover enhances net ecosystem exchange and stabilizes plant community composition and productivity in a temperate grassland. <i>Global Change Biology</i> , 2020 , 26, 3015-3027	11.4	16
20	Grassland species respond differently to altered precipitation amount and pattern. <i>Environmental and Experimental Botany</i> , 2017 , 137, 166-176	5.9	14
19	Responses of growing-season soil respiration to water and nitrogen addition as affected by grazing intensity. <i>Functional Ecology</i> , 2018 , 32, 1890-1901	5.6	12
18	Distribution of lignin phenols in comparison with plant-derived lipids in the alpine versus temperate grassland soils. <i>Plant and Soil</i> , 2019 , 439, 325-338	4.2	11
17	Linking microbial community structure to carbon substrate chemistry in soils following aboveground and belowground litter additions. <i>Applied Soil Ecology</i> , 2019 , 141, 18-25	5	10
16	The effects of increased snow depth on plant and microbial biomass and community composition along a precipitation gradient in temperate steppes. <i>Soil Biology and Biochemistry</i> , 2018 , 124, 134-141	7.5	10
15	Understory herb layer exerts strong controls on soil microbial communities in subtropical plantations. <i>Scientific Reports</i> , 2016 , 6, 27066	4.9	10
14	A comparison of patterns of microbial C : N : P stoichiometry between topsoil and subsoil along an aridity gradient. <i>Biogeosciences</i> , 2020 , 17, 2009-2019	4.6	9
13	Ecological clusters based on responses of soil microbial phylotypes to precipitation explain ecosystem functions. <i>Soil Biology and Biochemistry</i> , 2020 , 142, 107717	7.5	9
12	Distribution and Preservation of Root- and Shoot-Derived Carbon Components in Soils Across the Chinese-Mongolian Grasslands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 420-431	3.7	8
11	Regional-scale patterns of $\delta^{13}C$ and $\delta^{15}N$ associated with multiple ecosystem functions along an aridity gradient in grassland ecosystems. <i>Plant and Soil</i> , 2018 , 432, 107-118	4.2	8
10	Responses of soil microbial and nematode communities to aluminum toxicity in vegetated oil-shale-waste lands. <i>Ecotoxicology</i> , 2012 , 21, 2132-42	2.9	7
9	Stable isotopes of carbon and nitrogen help to predict the belowground communities at a regional scale. <i>Scientific Reports</i> , 2017 , 7, 7276	4.9	5
8	Vertical variations in plant- and microbial-derived carbon components in grassland soils. <i>Plant and Soil</i> , 2020 , 446, 441-455	4.2	5
7	Climate change drivers alter root controls over litter decomposition in a semi-arid grassland. <i>Soil Biology and Biochemistry</i> , 2021 , 158, 108278	7.5	5
6	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
5	Biodiversity-productivity relationships in a natural grassland community vary under diversity loss scenarios. <i>Journal of Ecology</i> ,	6	3

4	Legacy effect of grazing intensity mediates the bottom-up controls of resource addition on soil food webs. <i>Journal of Applied Ecology</i> , 2021 , 58, 976-987	5.8	3
3	Disentangling the effects of nitrogen availability and soil acidification on microbial taxa and soil carbon dynamics in natural grasslands. <i>Soil Biology and Biochemistry</i> , 2022 , 164, 108495	7.5	1
2	Rare soil microbial taxa regulate the negative effects of land degradation drivers on soil organic matter decomposition. <i>Journal of Applied Ecology</i> , 2021 , 58, 1658	5.8	1
1	Long-term regional evidence of the effects of livestock grazing on soil microbial community structure and functions in surface and deep soil layers. <i>Soil Biology and Biochemistry</i> , 2022 , 168, 108629	7.5	0