Dima Chen

List of Publications by Year in descending order

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Version: 2024-02-01

62 papers	3,553 citations	172207 29 h-index	143772 57 g-index
65 all docs	65 docs citations	65 times ranked	3696 citing authors

#	Article	IF	Citations
1	Plant diversity enhances productivity and soil carbon storage. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4027-4032.	3.3	368
2	Patterns of plant carbon, nitrogen, and phosphorus concentration in relation to productivity in Chinaâ€™s terrestrial ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4033-4038.	3.3	227
3	Evidence that acidificationâ€induced declines in plant diversity and productivity are mediated by changes in belowâ€ground communities and soil properties in a semiâ€arid steppe. Journal of Ecology, 2013, 101, 1322-1334.	1.9	201
4	Divergent accumulation of microbial necromass and plant lignin components in grassland soils. Nature Communications, 2018, 9, 3480.	5.8	192
5	Effects of nitrogen enrichment on belowground communities in grassland: Relative role of soil nitrogen availability vs. soil acidification. Soil Biology and Biochemistry, 2015, 89, 99-108.	4.2	188
6	Differential responses of soil bacterial communities to long-term N and P inputs in a semi-arid steppe. Geoderma, 2017, 292, 25-33.	2.3	174
7	Soil acidification exerts a greater control on soil respiration than soil nitrogen availability in grasslands subjected to longâ€term nitrogen enrichment. Functional Ecology, 2016, 30, 658-669.	1.7	156
8	Reconciling multiple impacts of nitrogen enrichment on soil carbon: plant, microbial and geochemical controls. Ecology Letters, 2018, 21, 1162-1173.	3.0	154
9	Direct and indirect effects of nitrogen enrichment on soil organisms and carbon and nitrogen mineralization in a semiâ€arid grassland. Functional Ecology, 2019, 33, 175-187.	1.7	115
10	Patterns and drivers of soil microbial communities along a precipitation gradient on the Mongolian Plateau. Landscape Ecology, 2015, 30, 1669-1682.	1.9	108
11	Seasonally dependent impacts of grazing on soil nitrogen mineralization and linkages to ecosystem functioning in Inner Mongolia grassland. Soil Biology and Biochemistry, 2011, 43, 1943-1954.	4.2	92
12	Functional correlations between specific leaf area and specific root length along a regional environmental gradient in Inner Mongolia grasslands. Functional Ecology, 2016, 30, 985-997.	1.7	83
13	Vertebrate herbivoreâ€induced changes in plants and soils: linkages to ecosystem functioning in a semiâ€arid steppe. Functional Ecology, 2013, 27, 273-281.	1.7	74
14	Grazing simplifies soil microâ€food webs and decouples their relationships with ecosystem functions in grasslands. Global Change Biology, 2020, 26, 960-970.	4.2	70
15	Regionalâ€scale patterns of soil microbes and nematodes across grasslands on the Mongolian plateau: relationships with climate, soil, and plants. Ecography, 2015, 38, 622-631.	2.1	68
16	Subtropical plantations are large carbon sinks: Evidence from two monoculture plantations in South China. Agricultural and Forest Meteorology, 2011, 151, 1214-1225.	1.9	67
17	Nitrogenâ€induced acidification, not Nâ€nutrient, dominates suppressive N effects on arbuscular mycorrhizal fungi. Global Change Biology, 2020, 26, 6568-6580.	4.2	64
18	Continuous Cropping Alters Multiple Biotic and Abiotic Indicators of Soil Health. Soil Systems, 2020, 4, 59.	1.0	63

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19	Effects of plant functional group loss on soil biota and net ecosystem exchange: a plant removal experiment in the Mongolian grassland. Journal of Ecology, 2016, 104, 734-743.	1.9	58
20	Root microbiome changes with root branching order and root chemistry in peach rhizosphere soil. Rhizosphere, 2020, 16, 100249.	1.4	55
21	Effects of aridity on soil microbial communities and functions across soil depths on the Mongolian Plateau. Functional Ecology, 2019, 33, 1561-1571.	1.7	49
22	Cover crop diversity improves multiple soil properties via altering root architectural traits. Rhizosphere, 2020, 16, 100248.	1.4	49
23	Effects of grazing on spatiotemporal variations in community structure and ecosystem function on the grasslands of Inner Mongolia, China. Scientific Reports, 2017, 7, 40.	1.6	44
24	Soil acidification reduces the effects of shortâ€term nutrient enrichment on plant and soil biota and their interactions in grasslands. Global Change Biology, 2020, 26, 4626-4637.	4.2	43
25	Understory plants can make substantial contributions to soil respiration: Evidence from two subtropical plantations. Soil Biology and Biochemistry, 2011, 43, 2355-2357.	4.2	40
26	Deepened winter snow cover enhances net ecosystem exchange and stabilizes plant community composition and productivity in a temperate grassland. Global Change Biology, 2020, 26, 3015-3027.	4.2	40
27	Biotic community shifts explain the contrasting responses of microbial and root respiration to experimental soil acidification. Soil Biology and Biochemistry, 2015, 90, 139-147.	4.2	38
28	Changes in belowground carbon in Acacia crassicarpa and Eucalyptus urophylla plantations after tree girdling. Plant and Soil, 2010, 326, 123-135.	1.8	31
29	Responses of growingâ€season soil respiration to water and nitrogen addition as affected by grazing intensity. Functional Ecology, 2018, 32, 1890-1901.	1.7	31
30	Stand level estimation of root respiration for two subtropical plantations based on in situ measurement of specific root respiration. Forest Ecology and Management, 2009, 257, 2088-2097.	1.4	30
31	Effects of root diameter and root nitrogen concentration on in situ root respiration among different seasons and tree species. Ecological Research, 2010, 25, 983-993.	0.7	30
32	Largeâ€Scale Distribution of Molecular Components in Chinese Grassland Soils: The Influence of Input and Decomposition Processes. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 239-255.	1.3	29
33	Tree girdling affects the soil microbial community by modifying resource availability in two subtropical plantations. Applied Soil Ecology, 2012, 53, 108-115.	2.1	28
34	Using structural equation modeling to test established theory and develop novel hypotheses for the structuring forces in soil food webs. Pedobiologia, 2015, 58, 137-145.	0.5	28
35	Effect of diversity on biomass across grasslands on the Mongolian Plateau: contrasting effects between plants and soil nematodes. Journal of Biogeography, 2016, 43, 955-966.	1.4	27
36	The effects of increased snow depth on plant and microbial biomass and community composition along a precipitation gradient in temperate steppes. Soil Biology and Biochemistry, 2018, 124, 134-141.	4.2	27

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37	Ecological clusters based on responses of soil microbial phylotypes to precipitation explain ecosystem functions. Soil Biology and Biochemistry, 2020, 142, 107717.	4.2	27
38	Response of soil respiration and ecosystem carbon budget to vegetation removal in Eucalyptus plantations with contrasting ages. Scientific Reports, 2015, 4, 6262.	1.6	26
39	Predominant control of moisture on soil organic carbon mineralization across a broad range of arid and semiarid ecosystems on the Mongolia plateau. Landscape Ecology, 2015, 30, 1683-1699.	1.9	26
40	CO2-induced alterations in plant nitrate utilization and root exudation stimulate N2O emissions. Soil Biology and Biochemistry, 2017, 106, 9-17.	4.2	26
41	Disentangling the effects of nitrogen availability and soil acidification on microbial taxa and soil carbon dynamics in natural grasslands. Soil Biology and Biochemistry, 2022, 164, 108495.	4.2	26
42	Grassland species respond differently to altered precipitation amount and pattern. Environmental and Experimental Botany, 2017, 137, 166-176.	2.0	25
43	Long-term regional evidence of the effects of livestock grazing on soil microbial community structure and functions in surface and deep soil layers. Soil Biology and Biochemistry, 2022, 168, 108629.	4.2	25
44	Legacy effect of grazing intensity mediates the bottomâ€up controls of resource addition on soil food webs. Journal of Applied Ecology, 2021, 58, 976-987.	1.9	22
45	Climate change drivers alter root controls over litter decomposition in a semi-arid grassland. Soil Biology and Biochemistry, 2021, 158, 108278.	4.2	22
46	Linking microbial community structure to carbon substrate chemistry in soils following aboveground and belowground litter additions. Applied Soil Ecology, 2019, 141, 18-25.	2.1	21
47	Distribution of lignin phenols in comparison with plant-derived lipids in the alpine versus temperate grassland soils. Plant and Soil, 2019, 439, 325-338.	1.8	18
48	Understory herb layer exerts strong controls on soil microbial communities in subtropical plantations. Scientific Reports, 2016, 6, 27066.	1.6	15
49	Regional-scale patterns of Î´13C and Î´15N associated with multiple ecosystem functions along an aridity gradient in grassland ecosystems. Plant and Soil, 2018, 432, 107-118.	1.8	15
50	Vertical variations in plant- and microbial-derived carbon components in grassland soils. Plant and Soil, 2020, 446, 441-455.	1.8	15
51	Distribution and Preservation of Rootâ€and Shootâ€Derived Carbon Components in Soils Across the Chineseâ€Mongolian Grasslands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 420-431.	1.3	14
52	A comparison of patterns of microbial Câ€‰:â€‰Nâ€‰:â€‰P stoichiometry between topsoil and subsoil along an aridity gradient. Biogeosciences, 2020, 17, 2009-2019.	1.3	13
53	Rare soil microbial taxa regulate the negative effects of land degradation drivers on soil organic matter decomposition. Journal of Applied Ecology, 2021, 58, 1658-1669.	1.9	10
54	Biodiversityâ€“productivity relationships in a natural grassland community vary under diversity loss scenarios. Journal of Ecology, 2022, 110, 210-220.	1.9	10

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55	Responses of soil microbial and nematode communities to aluminum toxicity in vegetated oil-shale-waste lands. Ecotoxicology, 2012, 21, 2132-2142.	1.1	9
56	Resource enrichment combined with biomass removal maintains plant diversity and community stability in a long-term grazed grassland. Journal of Plant Ecology, 2020, 13, 611-620.	1.2	9
57	Consistent effects of vegetation patch type on soil microbial communities across three successional stages in a desert ecosystem. Land Degradation and Development, 2022, 33, 1552-1563.	1.8	9
58	Even shortâ€term revegetation complicates soil food webs and strengthens their links with ecosystem functions. Journal of Applied Ecology, 2022, 59, 1721-1733.	1.9	9
59	Seasonality regulates the effects of resource addition on plant diversity and ecosystem functioning in semi-arid grassland. Journal of Plant Ecology, 2021, 14, 1143-1157.	1.2	6
60	Stable isotopes of carbon and nitrogen help to predict the belowground communities at a regional scale. Scientific Reports, 2017, 7, 7276.	1.6	5
61	Effects of collar size and buried depth on the measurement of soil respiration in a typical steppe. Chinese Journal of Plant Ecology, 2019, 43, 152-164.	0.3	2
62	Temporal stabilizing effects of species richness and seed arrangement on grassland biomass production. Journal of Ecology, 2022, 110, 1606-1614.	1.9	1