

Rongxiao Che

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

2,965
citations

236612

25
h-index

197535

49
g-index

86
all docs

86
docs citations

86
times ranked

3139
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of biochar on soil available inorganic nitrogen: A review and meta-analysis. <i>Geoderma</i> , 2017, 288, 79-96.	2.3	433
2	Effects of warming and grazing on soil N availability, species composition, and ANPP in an alpine meadow. <i>Ecology</i> , 2012, 93, 2365-2376.	1.5	305
3	Terrestrial N ₂ O emissions and related functional genes under climate change: A global meta-analysis. <i>Global Change Biology</i> , 2020, 26, 931-943.	4.2	125
4	Litter amendment rather than phosphorus can dramatically change inorganic nitrogen pools in a degraded grassland soil by affecting nitrogen-cycling microbes. <i>Soil Biology and Biochemistry</i> , 2018, 120, 145-152.	4.2	108
5	The effects of short term, long term and reapplication of biochar on soil bacteria. <i>Science of the Total Environment</i> , 2018, 636, 142-151.	3.9	105
6	Earlier-Season Vegetation Has Greater Temperature Sensitivity of Spring Phenology in Northern Hemisphere. <i>PLoS ONE</i> , 2014, 9, e88178.	1.1	98
7	Degraded patch formation significantly changed microbial community composition in alpine meadow soils. <i>Soil and Tillage Research</i> , 2019, 195, 104426.	2.6	94
8	Autotrophic and symbiotic diazotrophs dominate nitrogen-fixing communities in Tibetan grassland soils. <i>Science of the Total Environment</i> , 2018, 639, 997-1006.	3.9	88
9	Precipitation shapes communities of arbuscular mycorrhizal fungi in Tibetan alpine steppe. <i>Scientific Reports</i> , 2016, 6, 23488.	1.6	62
10	Total and active soil fungal community profiles were significantly altered by six years of warming but not by grazing. <i>Soil Biology and Biochemistry</i> , 2019, 139, 107611.	4.2	59
11	Arbuscular mycorrhizal fungi abundance was sensitive to nitrogen addition but diversity was sensitive to phosphorus addition in karst ecosystems. <i>Biology and Fertility of Soils</i> , 2019, 55, 457-469.	2.3	58
12	Aerobic methanotroph diversity in Qinghai Tibetan Plateau. <i>Environmental Microbiology Reports</i> , 2013, 5, 566-574.	1.0	55
13	Long-term warming rather than grazing significantly changed total and active soil prokaryotic community structures. <i>Geoderma</i> , 2018, 316, 1-10.	2.3	55
14	Variability and Changes in Climate, Phenology, and Gross Primary Production of an Alpine Wetland Ecosystem. <i>Remote Sensing</i> , 2016, 8, 391.	1.8	51
15	Strong evidence for changing fish reproductive phenology under climate warming on the Tibetan Plateau. <i>Global Change Biology</i> , 2018, 24, 2093-2104.	4.2	51
16	Responses of greenhouse gas fluxes to climate extremes in a semiarid grassland. <i>Atmospheric Environment</i> , 2016, 142, 32-42.	1.9	49
17	Increase in ammonia-oxidizing microbe abundance during degradation of alpine meadows may lead to greater soil nitrogen loss. <i>Biogeochemistry</i> , 2017, 136, 341-352.	1.7	44
18	The response of ecosystem CO ₂ exchange to small precipitation pulses over a temperate steppe. <i>Plant Ecology</i> , 2010, 209, 335-347.	0.7	41

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19	Laboratory-based hyperspectral image analysis for predicting soil carbon, nitrogen and their isotopic compositions. <i>Geoderma</i> , 2018, 330, 254-263.	2.3	41
20	Ecological responses to heavy rainfall depend on seasonal timing and multi-year recurrence. <i>New Phytologist</i> , 2019, 223, 647-660.	3.5	41
21	Phosphorus but not nitrogen addition significantly changes diazotroph diversity and community composition in typical karst grassland soil. <i>Agriculture, Ecosystems and Environment</i> , 2020, 301, 106987.	2.5	36
22	Bioconversion of coal to methane by microbial communities from soil and from an opencast mine in the Xilingol grassland of northeast China. <i>Biotechnology for Biofuels</i> , 2019, 12, 236.	6.2	33
23	Seasonal effects of river flow on microbial community coalescence and diversity in a riverine network. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	33
24	Upland Soil Cluster Gamma dominates methanotrophic communities in upland grassland soils. <i>Science of the Total Environment</i> , 2019, 670, 826-836.	3.9	32
25	Modeling Carbon Fluxes Using Multi-Temporal MODIS Imagery and CO ₂ Eddy Flux Tower Data in Zoige Alpine Wetland, South-West China. <i>Wetlands</i> , 2014, 34, 603-618.	0.7	30
26	Distinct assembly mechanisms of microbial sub-communities with different rarity along the Nu River. <i>Journal of Soils and Sediments</i> , 2022, 22, 1530-1545.	1.5	30
27	Precipitation drives the biogeographic distribution of soil fungal community in Inner Mongolian temperate grasslands. <i>Journal of Soils and Sediments</i> , 2018, 18, 222-228.	1.5	29
28	Evenness is important in assessing progress towards sustainable development goals. <i>National Science Review</i> , 2021, 8, nwaa238.	4.6	27
29	Reference levels and relationships of nine elements in first-spot morning urine and 24-h urine from 210 Chinese children. <i>International Journal of Hygiene and Environmental Health</i> , 2017, 220, 227-234.	2.1	23
30	Increased litter input significantly changed the total and active microbial communities in degraded grassland soils. <i>Journal of Soils and Sediments</i> , 2020, 20, 2804-2816.	1.5	23
31	Identification of active aerobic methanotrophs in plateau wetlands using DNA stable isotope probing. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw168.	0.7	22
32	Drought and heat wave impacts on grassland carbon cycling across hierarchical levels. <i>Plant, Cell and Environment</i> , 2021, 44, 2402-2413.	2.8	22
33	Root size and soil environments determine root lifespan: evidence from an alpine meadow on the Tibetan Plateau. <i>Ecological Research</i> , 2013, 28, 493-501.	0.7	21
34	Ecological consequence of nomad settlement policy in the pasture area of Qinghai-Tibetan Plateau: From plant and soil perspectives. <i>Journal of Environmental Management</i> , 2020, 260, 110114.	3.8	21
35	Air-drying and long time preservation of soil do not significantly impact microbial community composition and structure. <i>Soil Biology and Biochemistry</i> , 2021, 157, 108238.	4.2	21
36	The intra- and inter-annual responses of soil respiration to climate extremes in a semiarid grassland. <i>Geoderma</i> , 2020, 378, 114629.	2.3	20

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37	Wood decay fungi: an analysis of worldwide research. <i>Journal of Soils and Sediments</i> , 2022, 22, 1688-1702.	1.5	20
38	Effects of grazing on CO ₂ balance in a semiarid steppe: field observations and modeling. <i>Journal of Soils and Sediments</i> , 2013, 13, 1012-1023.	1.5	19
39	Bacterial community structure upstream and downstream of cascade dams along the Lancang River in southwestern China. <i>Environmental Science and Pollution Research</i> , 2020, 27, 42933-42947.	2.7	19
40	The composition of antibiotic resistance genes is not affected by grazing but is determined by microorganisms in grassland soils. <i>Science of the Total Environment</i> , 2021, 761, 143205.	3.9	19
41	Microbial abundance and diversity investigations along rivers: Current knowledge and future directions. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1547.	2.8	19
42	Responses of soil extracellular enzyme activities and bacterial community composition to seasonal stages of drought in a semiarid grassland. <i>Geoderma</i> , 2021, 401, 115327.	2.3	19
43	The effects of grazer exclosure duration on soil microbial communities on the Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 839, 156238.	3.9	19
44	Trends and potential cautions in food web research from a bibliometric analysis. <i>Scientometrics</i> , 2015, 105, 435-447.	1.6	18
45	Long-Term Harvest Residue Retention Could Decrease Soil Bacterial Diversities Probably Due to Favouring Oligotrophic Lineages. <i>Microbial Ecology</i> , 2018, 76, 771-781.	1.4	18
46	Downward aeration promotes static composting by affecting mineralization and humification. <i>Bioresource Technology</i> , 2021, 338, 125592.	4.8	18
47	Fecal bacterial diversity of wild Sichuan snub-nosed monkeys (<i>Rhinopithecus roxellana</i>). <i>American Journal of Primatology</i> , 2018, 80, e22753.	0.8	17
48	Phosphorus mediates soil prokaryote distribution pattern along a small-scale elevation gradient in Noijin Kangsang Peak, Tibetan Plateau. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	17
49	16S rRNA-based bacterial community structure is a sensitive indicator of soil respiration activity. <i>Journal of Soils and Sediments</i> , 2015, 15, 1987-1990.	1.5	16
50	Assessing soil microbial respiration capacity using rDNA- or rRNA-based indices: a review. <i>Journal of Soils and Sediments</i> , 2016, 16, 2698-2708.	1.5	16
51	Responses of soil microbes and their interactions with plant community after nitrogen and phosphorus addition in a Tibetan alpine steppe. <i>Journal of Soils and Sediments</i> , 2020, 20, 2236-2247.	1.5	16
52	Water resource conservation promotes synergy between economy and environment in China's northern drylands. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	16
53	Spatial patterns of microbial nitrogen-cycling gene abundances along a precipitation gradient in various temperate grasslands at a regional scale. <i>Geoderma</i> , 2021, 404, 115236.	2.3	16
54	Characteristics and trends of grassland degradation research. <i>Journal of Soils and Sediments</i> , 2022, 22, 1901-1912.	1.5	16

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55	Warming decreased and grazing increased plant uptake of amino acids in an alpine meadow. <i>Ecology and Evolution</i> , 2015, 5, 3995-4005.	0.8	15
56	Application of manures to mitigate the harmful effects of electrokinetic remediation of heavy metals on soil microbial properties in polluted soils. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26485-26496.	2.7	15
57	Extreme-duration drought impacts on soil CO ₂ efflux are regulated by plant species composition. <i>Plant and Soil</i> , 2019, 439, 357-372.	1.8	15
58	Bacterial community composition in soils covered by different vegetation types in the Yancheng tidal marsh. <i>Environmental Science and Pollution Research</i> , 2020, 27, 21517-21532.	2.7	15
59	Livelihood resilience in pastoral communities: Methodological and field insights from Qinghai-Tibetan Plateau. <i>Science of the Total Environment</i> , 2022, 838, 155960.	3.9	15
60	Responses of ammonia-oxidizing archaea and bacteria to nitrogen and phosphorus amendments in an alpine steppe. <i>European Journal of Soil Science</i> , 2020, 71, 940-954.	1.8	14
61	Habitat filtering shapes the differential structure of microbial communities in the Xilingol grassland. <i>Scientific Reports</i> , 2019, 9, 19326.	1.6	14
62	Changes in Biomass and Quality of Alpine Steppe in Response to N & P Fertilization in the Tibetan Plateau. <i>PLoS ONE</i> , 2016, 11, e0156146.	1.1	14
63	Effects of warming on root diameter, distribution, and longevity in an alpine meadow. <i>Plant Ecology</i> , 2014, 215, 1057-1066.	0.7	13
64	Soil microbial communities in alpine grasslands on the Tibet Plateau and their influencing factors. <i>Chinese Science Bulletin</i> , 2019, 64, 2915-2927.	0.4	13
65	Changes in soil microbial community response to precipitation events in a semi-arid steppe of the Xilin River Basin, China. <i>Journal of Arid Land</i> , 2019, 11, 97-110.	0.9	12
66	Total arsenic concentrations in Chinese children's urine by different geographic locations, ages, and genders. <i>Environmental Geochemistry and Health</i> , 2018, 40, 1027-1036.	1.8	11
67	Short-term carbon and nitrogen dynamics in soil, litterfall and canopy of a suburban native forest subjected to prescribed burning in subtropical Australia. <i>Journal of Soils and Sediments</i> , 2019, 19, 3969-3981.	1.5	10
68	Assessing soil extracellular DNA decomposition dynamics through plasmid amendment coupled with real-time PCR. <i>Journal of Soils and Sediments</i> , 2019, 19, 91-96.	1.5	10
69	Using the DNDC model to simulate the potential of carbon budget in the meadow and desert steppes in Inner Mongolia, China. <i>Journal of Soils and Sediments</i> , 2018, 18, 63-75.	1.5	9
70	Nonlinear carbon cycling responses to precipitation variability in a semiarid grassland. <i>Science of the Total Environment</i> , 2021, 781, 147062.	3.9	9
71	Climatic, Edaphic and Biotic Controls over Soil $\delta^{13}C$ and $\delta^{15}N$ in Temperate Grasslands. <i>Forests</i> , 2020, 11, 433.	0.9	8
72	Toxic trace element resistance genes and systems identified using the shotgun metagenomics approach in an Iranian mine soil. <i>Environmental Science and Pollution Research</i> , 2021, 28, 4845-4856.	2.7	6

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73	Biodiversity patterns of dry grasslands in the Central Apennines (Italy) along a precipitation gradient: experiences from the 10th EDGG Field Workshop. <i>Bulletin of the Eurasian Dry Grassland Group</i> , 2018, , 25-41.	0.1	6
74	Warming and grazing interact to affect root dynamics in an alpine meadow. <i>Plant and Soil</i> , 2021, 459, 109-124.	1.8	5
75	An Intrinsic Geometric Constraint on Morphological Stomatal Traits. <i>Frontiers in Plant Science</i> , 2021, 12, 658702.	1.7	5
76	Environmental selection overturns the decay relationship of soil prokaryotic community over geographic distance across grassland biotas. <i>ELife</i> , 2022, 11, .	2.8	5
77	Joint control by soil moisture, functional genes and substrates on response of N ₂ O flux to climate extremes in a semiarid grassland. <i>Agricultural and Forest Meteorology</i> , 2022, 316, 108854.	1.9	5
78	Effects of Nitrogen Addition on Plant Properties and Microbiomes Under High Phosphorus Addition Level in the Alpine Steppe. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	5
79	Do different livestock dwellings on single grassland share similar faecal microbial communities?. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5023-5037.	1.7	4
80	Heavy rainfall in peak growing season had larger effects on soil nitrogen flux and pool than in the late season in a semiarid grassland. <i>Agriculture, Ecosystems and Environment</i> , 2022, 326, 107785.	2.5	4
81	Grasslands Maintain Stability in Productivity Through Compensatory Effects and Dominant Species Stability Under Extreme Precipitation Patterns. <i>Ecosystems</i> , 0, , 1.	1.6	2
82	A review on the methods for measuring total microbial activity in soil. <i>Acta Ecologica Sinica</i> , 2016, 36, .	0.0	1
83	Estimation of root production and turnover in an alpine meadow: comparison of three measurement methods. <i>Acta Ecologica Sinica</i> , 2014, 34, .	0.0	1
84	Cover Image, Volume 8, Issue 5. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1551.	2.8	0
85	A Review of the Physiological and Ecological Characteristics of Methanotrophs and Methanotrophic Community Diversity in the Natural Wetlands. <i>Acta Ecologica Sinica</i> , 2015, 35, .	0.0	0