# Rongxiao Che

List of Publications by Year
in descending order



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|---|---|---|---|
| 85 papers | 2,965 citations | 236833 25 h-index | 197736 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. Geoderma, 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. Ecology, 2012, 93, 2365-2376. | 1.5 | 305 |
| 3 | Terrestrial N<sub>2</sub>O emissions and related functional genes under climate change: A global metaâ€anâ€analysis. Global Change Biology, 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. Soil Biology and Biochemistry, 2018, 120, 145-152. | 4.2 | 108 |
| 5 | The effects of short term, long term and reapplication of biochar on soil bacteria. Science of the Total Environment, 2018, 636, 142-151. | 3.9 | 105 |
| 6 | Earlier-Season Vegetation Has Greater Temperature Sensitivity of Spring Phenology in Northern Hemisphere. PLoS ONE, 2014, 9, e88178. | 1.1 | 98 |
| 7 | Degraded patch formation significantly changed microbial community composition in alpine meadow soils. Soil and Tillage Research, 2019, 195, 104426. | 2.6 | 94 |
| 8 | Autotrophic and symbiotic diazotrophs dominate nitrogen-fixing communities in Tibetan grassland soils. Science of the Total Environment, 2018, 639, 997-1006. | 3.9 | 88 |
| 9 | Precipitation shapes communities of arbuscular mycorrhizal fungi in Tibetan alpine steppe. Scientific Reports, 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. Soil Biology and Biochemistry, 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. Biology and Fertility of Soils, 2019, 55, 457-469. | 2.3 | 58 |
| 12 | Aerobic methanotroph diversity in <scp>R</scp>iganqiao peatlands on the <scp>Q</scp>inghaiâ€“<scp>T</scp>ibetan <scp>P</scp>lateau. Environmental Microbiology Reports, 2013, 5, 566-574. | 1.0 | 55 |
| 13 | Long-term warming rather than grazing significantly changed total and active soil procaryotic community structures. Geoderma, 2018, 316, 1-10. | 2.3 | 55 |
| 14 | Variability and Changes in Climate, Phenology, and Gross Primary Production of an Alpine Wetland Ecosystem. Remote Sensing, 2016, 8, 391. | 1.8 | 51 |
| 15 | Strong evidence for changing fish reproductive phenology under climate warming on the Tibetan Plateau. Global Change Biology, 2018, 24, 2093-2104. | 4.2 | 51 |
| 16 | Responses of greenhouse gas fluxes to climate extremes in a semiarid grassland. Atmospheric Environment, 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. Biogeochemistry, 2017, 136, 341-352. | 1.7 | 44 |
| 18 | The response of ecosystem CO2 exchange to small precipitation pulses over a temperate steppe. Plant Ecology, 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. Geoderma, 2018, 330, 254-263. | 2.3 | 41 |
| 20 | Ecological responses to heavy rainfall depend on seasonal timing and multiâ€year recurrence. New Phytologist, 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. Agriculture, Ecosystems and Environment, 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. Biotechnology for Biofuels, 2019, 12, 236. | 6.2 | 33 |
| 23 | Seasonal effects of river flow on microbial community coalescence and diversity in a riverine network. FEMS Microbiology Ecology, 2020, 96, . | 1.3 | 33 |
| 24 | Upland Soil Cluster Gamma dominates methanotrophic communities in upland grassland soils. Science of the Total Environment, 2019, 670, 826-836. | 3.9 | 32 |
| 25 | Modeling Carbon Fluxes Using Multi-Temporal MODIS Imagery and CO2 Eddy Flux Tower Data in Zoige Alpine Wetland, South-West China. Wetlands, 2014, 34, 603-618. | 0.7 | 30 |
| 26 | Distinct assembly mechanisms of microbial sub-communities with different rarity along the Nu River. Journal of Soils and Sediments, 2022, 22, 1530-1545. | 1.5 | 30 |
| 27 | Precipitation drives the biogeographic distribution of soil fungal community in Inner Mongolian temperate grasslands. Journal of Soils and Sediments, 2018, 18, 222-228. | 1.5 | 29 |
| 28 | Evenness is important in assessing progress towards sustainable development goals. National Science Review, 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. International Journal of Hygiene and Environmental Health, 2017, 220, 227-234. | 2.1 | 23 |
| 30 | Increased litter input significantly changed the total and active microbial communities in degraded grassland soils. Journal of Soils and Sediments, 2020, 20, 2804-2816. | 1.5 | 23 |
| 31 | Identification of active aerobic methanotrophs in plateau wetlands using DNA stable isotope probing. FEMS Microbiology Letters, 2016, 363, fnw168. | 0.7 | 22 |
| 32 | Drought and heat wave impacts on grassland carbon cycling across hierarchical levels. Plant, Cell and Environment, 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. Ecological Research, 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. Journal of Environmental Management, 2020, 260, 110114. | 3.8 | 21 |
| 35 | Air-drying and long time preservation of soil do not significantly impact microbial community composition and structure. Soil Biology and Biochemistry, 2021, 157, 108238. | 4.2 | 21 |
| 36 | The intra- and inter-annual responses of soil respiration to climate extremes in a semiarid grassland. Geoderma, 2020, 378, 114629. | 2.3 | 20 |

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|---|---|---|---|
| 37 | Wood decay fungi: an analysis of worldwide research. Journal of Soils and Sediments, 2022, 22, 1688-1702. | 1.5 | 20 |
| 38 | Effects of grazing on CO2 balance in a semiarid steppe: field observations and modeling. Journal of Soils and Sediments, 2013, 13, 1012-1023. | 1.5 | 19 |
| 39 | Bacterial community structure upstream and downstream of cascade dams along the Lancang River in southwestern China. Environmental Science and Pollution Research, 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. Science of the Total Environment, 2021, 761, 143205. | 3.9 | 19 |
| 41 | Microbial abundance and diversity investigations along rivers: Current knowledge and future directions. Wiley Interdisciplinary Reviews: Water, 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. Geoderma, 2021, 401, 115327. | 2.3 | 19 |
| 43 | The effects of grazer exclosure duration on soil microbial communities on the Qinghai-Tibetan Plateau. Science of the Total Environment, 2022, 839, 156238. | 3.9 | 19 |
| 44 | Trends and potential cautions in food web research from a bibliometric analysis. Scientometrics, 2015, 105, 435-447. | 1.6 | 18 |
| 45 | Long-Term Harvest Residue Retention Could Decrease Soil Bacterial Diversities Probably Due to Favouring Oligotrophic Lineages. Microbial Ecology, 2018, 76, 771-781. | 1.4 | 18 |
| 46 | Downward aeration promotes static composting by affecting mineralization and humification. Bioresource Technology, 2021, 338, 125592. | 4.8 | 18 |
| 47 | Fecal bacterial diversity of wild Sichuan snubâ€nosed monkeys (Rhinopithecus roxellana). American Journal of Primatology, 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. FEMS Microbiology Ecology, 2019, 95, . | 1.3 | 17 |
| 49 | 16S rRNA-based bacterial community structure is a sensitive indicator of soil respiration activity. Journal of Soils and Sediments, 2015, 15, 1987-1990. | 1.5 | 16 |
| 50 | Assessing soil microbial respiration capacity using rDNA- or rRNA-based indices: a review. Journal of Soils and Sediments, 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. Journal of Soils and Sediments, 2020, 20, 2236-2247. | 1.5 | 16 |
| 52 | Water resource conservation promotes synergy between economy and environment in Chinaâ€™s northern drylands. Frontiers of Environmental Science and Engineering, 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. Geoderma, 2021, 404, 115236. | 2.3 | 16 |
| 54 | Characteristics and trends of grassland degradation research. Journal of Soils and Sediments, 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. Ecology and Evolution, 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. Environmental Science and Pollution Research, 2017, 24, 26485-26496. | 2.7 | 15 |
| 57 | Extreme-duration drought impacts on soil CO2 efflux are regulated by plant species composition. Plant and Soil, 2019, 439, 357-372. | 1.8 | 15 |
| 58 | Bacterial community composition in soils covered by different vegetation types in the Yancheng tidal marsh. Environmental Science and Pollution Research, 2020, 27, 21517-21532. | 2.7 | 15 |
| 59 | Livelihood resilience in pastoral communities: Methodological and field insights from Qinghai-Tibetan Plateau. Science of the Total Environment, 2022, 838, 155960. | 3.9 | 15 |
| 60 | Responses of ammoniaâ€oxidizing archaea and bacteria to nitrogen and phosphorus amendments in an alpine steppe. European Journal of Soil Science, 2020, 71, 940-954. | 1.8 | 14 |
| 61 | Habitat filtering shapes the differential structure of microbial communities in the Xilingol grassland. Scientific Reports, 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. PLoS ONE, 2016, 11, e0156146. | 1.1 | 14 |
| 63 | Effects of warming on root diameter, distribution, and longevity in an alpine meadow. Plant Ecology, 2014, 215, 1057-1066. | 0.7 | 13 |
| 64 | Soil microbial communities in alpine grasslands on the Tibet Plateau and their influencing factors. Chinese Science Bulletin, 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. Journal of Arid Land, 2019, 11, 97-110. | 0.9 | 12 |
| 66 | Total arsenic concentrations in Chinese childrenâ€™s urine by different geographic locations, ages, and genders. Environmental Geochemistry and Health, 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. Journal of Soils and Sediments, 2019, 19, 3969-3981. | 1.5 | 10 |
| 68 | Assessing soil extracellular DNA decomposition dynamics through plasmid amendment coupled with real-time PCR. Journal of Soils and Sediments, 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. Journal of Soils and Sediments, 2018, 18, 63-75. | 1.5 | 9 |
| 70 | Nonlinear carbon cycling responses to precipitation variability in a semiarid grassland. Science of the Total Environment, 2021, 781, 147062. | 3.9 | 9 |
| 71 | Climatic, Edaphic and Biotic Controls over Soil Î´13C and Î´15N in Temperate Grasslands. Forests, 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. Environmental Science and Pollution Research, 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. Bulletin of the Eurasian Dry Grassland Group, 2018, , 25-41. | 0.1 | 6 |
| 74 | Warming and grazing interact to affect root dynamics in an alpine meadow. Plant and Soil, 2021, 459, 109-124. | 1.8 | 5 |
| 75 | An Intrinsic Geometric Constraint on Morphological Stomatal Traits. Frontiers in Plant Science, 2021, 12, 658702. | 1.7 | 5 |
| 76 | Environmental selection overturns the decay relationship of soil prokaryotic community over geographic distance across grassland biotas. ELife, 2022, 11, . | 2.8 | 5 |
| 77 | Joint control by soil moisture, functional genes and substrates on response of N2O flux to climate extremes in a semiarid grassland. Agricultural and Forest Meteorology, 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. Frontiers in Plant Science, 0, 13, . | 1.7 | 5 |
| 79 | Do different livestock dwellings on single grassland share similar faecal microbial communities?. Applied Microbiology and Biotechnology, 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. Agriculture, Ecosystems and Environment, 2022, 326, 107785. | 2.5 | 4 |
| 81 | Grasslands Maintain Stability in Productivity Through Compensatory Effects and Dominant Species Stability Under Extreme Precipitation Patterns. Ecosystems, 0, , 1. | 1.6 | 2 |
| 82 | A review on the methods for measuring total microbial activity in soil. Acta Ecologica Sinica, 2016, 36, . | 0.0 | 1 |
| 83 | Estimation of root production and turnover in an alpine meadow: comparison of three measurement methods. Acta Ecologica Sinica, 2014, 34, . | 0.0 | 1 |
| 84 | Cover Image, Volume 8, Issue 5. Wiley Interdisciplinary Reviews: Water, 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. Acta Ecologica Sinica, 2015, 35, . | 0.0 | 0 |