

Yanfen Wang

List of Publications by Year in descending order

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Version: 2024-02-01

208
papers

10,183
citations

36203

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45213

90
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docs citations

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times ranked

10346
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The impacts of climate change and human activities on biogeochemical cycles on the Qinghai-Tibetan Plateau. <i>Global Change Biology</i> , 2013, 19, 2940-2955. | 4.2 | 670 |
| 2 | ZnO/graphene-oxide nanocomposite with remarkably enhanced visible-light-driven photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 114-121. | 5.0 | 396 |
| 3 | Facile Synthesis and Enhanced Photocatalytic Performance of Flower-like ZnO Hierarchical Microstructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 890-896. | 1.5 | 379 |
| 4 | 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. | 3.3 | 368 |
| 5 | 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 |
| 6 | Effects of vegetation control on ecosystem water use efficiency within and among four grassland ecosystems in China. <i>Global Change Biology</i> , 2008, 14, 1609-1619. | 4.2 | 288 |
| 7 | Fabrication and Properties of Microencapsulated Paraffin@SiO ₂ Phase Change Composite for Thermal Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 374-380. | 3.2 | 249 |
| 8 | Partitioning of evapotranspiration and its controls in four grassland ecosystems: Application of a two-source model. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1410-1420. | 1.9 | 227 |
| 9 | Facile synthesis and photocatalytic activity of ZnO@CuO nanocomposite. <i>Superlattices and Microstructures</i> , 2010, 47, 615-623. | 1.4 | 223 |
| 10 | Rate-specific responses of prokaryotic diversity and structure to nitrogen deposition in the <i>Leymus chinensis</i> steppe. <i>Soil Biology and Biochemistry</i> , 2014, 79, 81-90. | 4.2 | 175 |
| 11 | Response of ecosystem respiration to warming and grazing during the growing seasons in the alpine meadow on the Tibetan plateau. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 792-802. | 1.9 | 171 |
| 12 | Methane emissions from rice paddies natural wetlands, lakes in China: synthesis new estimate. <i>Global Change Biology</i> , 2013, 19, 19-32. | 4.2 | 166 |
| 13 | Management and land use change effects on soil carbon in northern China's grasslands: a synthesis. <i>Agriculture, Ecosystems and Environment</i> , 2011, 142, 329-340. | 2.5 | 160 |
| 14 | Facile preparation and adjustable thermal property of stearic acid@graphene oxide composite as shape-stabilized phase change material. <i>Chemical Engineering Journal</i> , 2013, 215-216, 819-826. | 6.6 | 160 |
| 15 | Effects of environmental factors on N ₂ O emission from and CH ₄ uptake by the typical grasslands in the Inner Mongolia. <i>Chemosphere</i> , 2005, 58, 205-215. | 4.2 | 140 |
| 16 | Reduced microbial stability in the active layer is associated with carbon loss under alpine permafrost degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 138 |
| 17 | Warming and grazing affect soil labile carbon and nitrogen pools differently in an alpine meadow of the Qinghai-Tibet Plateau in China. <i>Journal of Soils and Sediments</i> , 2011, 11, 903-914. | 1.5 | 133 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Warming and increased precipitation have differential effects on soil extracellular enzyme activities in a temperate grassland. <i>Science of the Total Environment</i> , 2013, 444, 552-558. | 3.9 | 121 |
| 20 | The carbon stock of alpine peatlands on the Qinghai-Tibetan Plateau during the Holocene and their future fate. <i>Quaternary Science Reviews</i> , 2014, 95, 151-158. | 1.4 | 118 |
| 21 | Effect of long-term grazing on soil organic carbon content in semiarid steppes in Inner Mongolia. <i>Ecological Research</i> , 2005, 20, 519-527. | 0.7 | 113 |
| 22 | Methanogen community in Zoige wetland of Tibetan plateau and phenotypic characterization of a dominant uncultured methanogen cluster ZC. <i>Environmental Microbiology</i> , 2008, 10, 1850-1860. | 1.8 | 108 |
| 23 | Effects of warming and grazing on N ₂ O fluxes in an alpine meadow ecosystem on the Tibetan plateau. <i>Soil Biology and Biochemistry</i> , 2010, 42, 944-952. | 4.2 | 107 |
| 24 | Excitation-emission matrix (EEM) fluorescence spectroscopy for characterization of organic matter in membrane bioreactors: Principles, methods and applications. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1. | 3.3 | 100 |
| 25 | Facile fabrication of Ag/graphene oxide/TiO ₂ nanorod array as a powerful substrate for photocatalytic degradation and surface-enhanced Raman scattering detection. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 174-186. | 10.8 | 98 |
| 26 | Degraded patch formation significantly changed microbial community composition in alpine meadow soils. <i>Soil and Tillage Research</i> , 2019, 195, 104426. | 2.6 | 94 |
| 27 | Temperature and precipitation control of the spatial variation of terrestrial ecosystem carbon exchange in the Asian region. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 266-276. | 1.9 | 86 |
| 28 | Seasonal and interannual variation in water vapor and energy exchange over a typical steppe in Inner Mongolia, China. <i>Agricultural and Forest Meteorology</i> , 2007, 146, 57-69. | 1.9 | 83 |
| 29 | Soil extractable carbon and nitrogen, microbial biomass and microbial metabolic activity in response to warming and increased precipitation in a semiarid Inner Mongolian grassland. <i>Geoderma</i> , 2013, 206, 24-31. | 2.3 | 80 |
| 30 | Production and characterization of surfactin-like biosurfactant produced by novel strain <i>Bacillus nealsonii</i> S2MT and its potential for oil contaminated soil remediation. <i>Microbial Cell Factories</i> , 2020, 19, 145. | 1.9 | 79 |
| 31 | Synthesis, microstructure, and photocatalysis of ZnO/CdS nano-heterostructure. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1165-1169. | 1.9 | 76 |
| 32 | Partitioning pattern of carbon flux in a <i>Kobresia</i> grassland on the Qinghai-Tibetan Plateau revealed by field ¹³ C pulse-labeling. <i>Global Change Biology</i> , 2010, 16, 2322-2333. | 4.2 | 75 |
| 33 | Contrasting responses of gross primary productivity to precipitation events in a water-limited and a temperature-limited grassland ecosystem. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 169-177. | 1.9 | 75 |
| 34 | Warming and grazing increase mineralization of organic P in an alpine meadow ecosystem of Qinghai-Tibet Plateau, China. <i>Plant and Soil</i> , 2012, 357, 73-87. | 1.8 | 71 |
| 35 | A facile one-pot synthesis of Cu ₂ O/RGO nanocomposite for removal of organic pollutant. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 635-640. | 1.9 | 71 |
| 36 | Responses of soil respiration and its components to drought stress. <i>Journal of Soils and Sediments</i> , 2014, 14, 99-109. | 1.5 | 69 |

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|----|--|-----|-----------|
| 37 | Soil methane uptake by grasslands and forests in China. <i>Soil Biology and Biochemistry</i> , 2014, 74, 70-81. | 4.2 | 69 |
| 38 | Determinants influencing seasonal variations of methane emissions from alpine wetlands in Zoige Plateau and their implications. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 68 |
| 39 | Delayed spring phenology on the Tibetan Plateau may also be attributable to other factors than winter and spring warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E93; author reply E95. | 3.3 | 68 |
| 40 | Effects of grazing on N ₂ O production potential and abundance of nitrifying and denitrifying microbial communities in meadow-steppe grassland in northern China. <i>Soil Biology and Biochemistry</i> , 2014, 69, 1-10. | 4.2 | 66 |
| 41 | Intermediate grazing intensities by sheep increase soil bacterial diversities in an Inner Mongolian steppe. <i>Biology and Fertility of Soils</i> , 2010, 46, 817-824. | 2.3 | 63 |
| 42 | A unique Cu ₂ O/TiO ₂ nanocomposite with enhanced photocatalytic performance under visible light irradiation. <i>Ceramics International</i> , 2017, 43, 4866-4872. | 2.3 | 61 |
| 43 | Enhanced electromagnetic wave absorption performance of silane coupling agent KH550@Fe ₃ O ₄ hollow nanospheres/graphene composites. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2913-2926. | 2.7 | 61 |
| 44 | Short-term effects of sheep excrement on carbon dioxide, nitrous oxide and methane fluxes in typical grassland of Inner Mongolia. <i>New Zealand Journal of Agricultural Research</i> , 2006, 49, 285-297. | 0.9 | 60 |
| 45 | Spatial variations on methane emissions from Zoige alpine wetlands of Southwest China. <i>Science of the Total Environment</i> , 2009, 407, 1097-1104. | 3.9 | 59 |
| 46 | 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 |
| 47 | Effects of grazing and experimental warming on DOC concentrations in the soil solution on the Qinghai-Tibet plateau. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2493-2500. | 4.2 | 58 |
| 48 | Fabrication of superhydrophobic surface of hierarchical ZnO thin films by using stearic acid. <i>Superlattices and Microstructures</i> , 2012, 51, 128-134. | 1.4 | 57 |
| 49 | Seasonal dynamics of water use efficiency of typical forest and grassland ecosystems in China. <i>Journal of Forest Research</i> , 2014, 19, 70-76. | 0.7 | 55 |
| 50 | 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 |
| 51 | Improving the light use efficiency model for simulating terrestrial vegetation gross primary production by the inclusion of diffuse radiation across ecosystems in China. <i>Ecological Complexity</i> , 2015, 23, 1-13. | 1.4 | 54 |
| 52 | A MODIS-based Photosynthetic Capacity Model to estimate gross primary production in Northern China and the Tibetan Plateau. <i>Remote Sensing of Environment</i> , 2014, 148, 108-118. | 4.6 | 52 |
| 53 | Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade. <i>Functional Ecology</i> , 2018, 32, 1117-1127. | 1.7 | 52 |
| 54 | The Global-DEP conceptual framework – research on dryland ecosystems to promote sustainability. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 17-28. | 3.1 | 52 |

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|----|---|-----|-----------|
| 55 | CO ₂ , H ₂ O and energy exchange of an Inner Mongolia steppe ecosystem during a dry and wet year. <i>Acta Oecologica</i> , 2008, 33, 133-143. | 0.5 | 51 |
| 56 | High methane emissions from a littoral zone on the Qinghai-Tibetan Plateau. <i>Atmospheric Environment</i> , 2009, 43, 4995-5000. | 1.9 | 50 |
| 57 | Methanol as the Primary Methanogenic and Acetogenic Precursor in the Cold Zoige Wetland at Tibetan Plateau. <i>Microbial Ecology</i> , 2010, 60, 206-213. | 1.4 | 49 |
| 58 | Responses of greenhouse gas fluxes to climate extremes in a semiarid grassland. <i>Atmospheric Environment</i> , 2016, 142, 32-42. | 1.9 | 49 |
| 59 | Spatio-temporal variations in the areas suitable for the cultivation of rice and maize in China under future climate scenarios. <i>Science of the Total Environment</i> , 2017, 601-602, 518-531. | 3.9 | 47 |
| 60 | Effect of natural microbiome and culturable biosurfactants-producing bacterial consortia of freshwater lake on petroleum-hydrocarbon degradation. <i>Science of the Total Environment</i> , 2021, 751, 141720. | 3.9 | 47 |
| 61 | Community Structure, Abundance, and Activity of Methanotrophs in the Zoige Wetland of the Tibetan Plateau. <i>Microbial Ecology</i> , 2012, 63, 835-843. | 1.4 | 44 |
| 62 | 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 |
| 63 | Drivers of Change to Mountain Sustainability in the Hindu Kush Himalaya. , 2019, , 17-56. | | 43 |
| 64 | Carbon accumulation and sequestration of lakes in China during the Holocene. <i>Global Change Biology</i> , 2015, 21, 4436-4448. | 4.2 | 42 |
| 65 | Facile synthesis of TiO ₂ /In ₂ S ₃ /CdS ternary porous heterostructure arrays with enhanced photoelectrochemical and visible-light photocatalytic properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9065-9074. | 2.7 | 42 |
| 66 | Warming counteracts grazing effects on the functional structure of the soil microbial community in a Tibetan grassland. <i>Soil Biology and Biochemistry</i> , 2019, 134, 113-121. | 4.2 | 42 |
| 67 | 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 |
| 68 | <i>Methanoculleus hydrogenitrophicus</i> sp. nov., a methanogenic archaeon isolated from wetland soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 2165-2169. | 0.8 | 41 |
| 69 | Effects of drought on the archaeal community in soil of the Zoige wetlands of the Qinghai-Tibetan plateau. <i>European Journal of Soil Biology</i> , 2012, 52, 84-90. | 1.4 | 41 |
| 70 | Ecological responses to heavy rainfall depend on seasonal timing and multi-year recurrence. <i>New Phytologist</i> , 2019, 223, 647-660. | 3.5 | 41 |
| 71 | Hierarchically assembled porous ZnO microstructures and applications in a gas sensor. <i>Superlattices and Microstructures</i> , 2011, 49, 433-440. | 1.4 | 40 |
| 72 | Quantitative Assessment of the Impact of Physical and Anthropogenic Factors on Vegetation Spatial-Temporal Variation in Northern Tibet. <i>Remote Sensing</i> , 2019, 11, 1183. | 1.8 | 40 |

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|----|---|-----|-----------|
| 73 | Effects of temperature, precipitation and carbon dioxide concentrations on the requirements for crop irrigation water in China under future climate scenarios. <i>Science of the Total Environment</i> , 2019, 656, 373-387. | 3.9 | 38 |
| 74 | The significance of tree-tree interactions for forest ecosystem functioning. <i>Basic and Applied Ecology</i> , 2021, 55, 33-52. | 1.2 | 38 |
| 75 | Is frequency or amount of precipitation more important in controlling CO ₂ fluxes in the 30-year-old fenced and the moderately grazed temperate steppe?. <i>Agriculture, Ecosystems and Environment</i> , 2013, 171, 63-71. | 2.5 | 37 |
| 76 | Controllable fabrication of superhydrophobic TiO ₂ coating with improved transparency and thermostability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 298-305. | 2.3 | 35 |
| 77 | Spatial variation in annual actual evapotranspiration of terrestrial ecosystems in China: Results from eddy covariance measurements. <i>Journal of Chinese Geography</i> , 2016, 26, 1391-1411. | 1.5 | 35 |
| 78 | Relationship between fluorescence excitation-emission matrix properties and the relative degree of DOM hydrophobicity in wastewater treatment effluents. <i>Chemosphere</i> , 2020, 254, 126830. | 4.2 | 35 |
| 79 | Effect of water stress on ecosystem photosynthesis and respiration of a <i>Leymus chinensis</i> steppe in Inner Mongolia. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 196-206. | 0.9 | 34 |
| 80 | The sensitivity of temperate steppe CO ₂ exchange to the quantity and timing of natural interannual rainfall. <i>Ecological Informatics</i> , 2010, 5, 222-228. | 2.3 | 34 |
| 81 | Modeling impacts of climate change on carbon dynamics in a steppe ecosystem in Inner Mongolia, China. <i>Journal of Soils and Sediments</i> , 2011, 11, 562-576. | 1.5 | 34 |
| 82 | Three-dimensional hierarchical anatase@rutile TiO ₂ nanotree array films decorated by silver nanoparticles as ultrasensitive recyclable surface-enhanced Raman scattering substrates. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1166-1174. | 2.8 | 34 |
| 83 | Quantitative Analysis of the Research Trends and Areas in Grassland Remote Sensing: A Scientometrics Analysis of Web of Science from 1980 to 2020. <i>Remote Sensing</i> , 2021, 13, 1279. | 1.8 | 34 |
| 84 | 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 |
| 85 | Facile fabrication of a low adhesion, stable and superhydrophobic filter paper modified with ZnO microclusters. <i>Applied Surface Science</i> , 2019, 496, 143743. | 3.1 | 33 |
| 86 | Plant species effects on soil carbon and nitrogen dynamics in a temperate steppe of northern China. <i>Plant and Soil</i> , 2011, 346, 331-347. | 1.8 | 32 |
| 87 | 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 |
| 88 | Diurnal variation of methane emissions from an alpine wetland on the eastern edge of Qinghai-Tibetan Plateau. <i>Environmental Monitoring and Assessment</i> , 2010, 164, 21-28. | 1.3 | 31 |
| 89 | Ecosystem response more than climate variability drives the inter-annual variability of carbon fluxes in three Chinese grasslands. <i>Agricultural and Forest Meteorology</i> , 2016, 225, 48-56. | 1.9 | 31 |
| 90 | Methane Fluxes from Alpine Wetlands of Zoige Plateau in Relation to Water Regime and Vegetation under Two Scales. <i>Water, Air, and Soil Pollution</i> , 2011, 217, 173-183. | 1.1 | 30 |

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|-----|---|-----|-----------|
| 91 | 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 |
| 92 | Grazing modifies inorganic and organic nitrogen uptake by coexisting plant species in alpine grassland. <i>Biology and Fertility of Soils</i> , 2016, 52, 211-221. | 2.3 | 30 |
| 93 | Construction of Ag@AgCl decorated TiO ₂ nanorod array film with optimized photoelectrochemical and photocatalytic performance. <i>Applied Surface Science</i> , 2019, 476, 84-93. | 3.1 | 30 |
| 94 | 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 |
| 95 | TiO ₂ nanorod array film decorated with rGO nanosheets for enhancing photocatalytic and photoelectrochemical properties. <i>Journal of Alloys and Compounds</i> , 2019, 770, 243-251. | 2.8 | 29 |
| 96 | Inter-Annual Variations of Methane Emission from an Open Fen on the Qinghai-Tibetan Plateau: A Three-Year Study. <i>PLoS ONE</i> , 2013, 8, e53878. | 1.1 | 27 |
| 97 | Lagged climatic effects on carbon fluxes over three grassland ecosystems in China. <i>Journal of Plant Ecology</i> , 2015, 8, 291-302. | 1.2 | 27 |
| 98 | Evenness is important in assessing progress towards sustainable development goals. <i>National Science Review</i> , 2021, 8, nwaa238. | 4.6 | 27 |
| 99 | Effects of flue gas desulfurization gypsum by-products on microbial biomass and community structure in alkaline-saline soils. <i>Journal of Soils and Sediments</i> , 2012, 12, 1040-1053. | 1.5 | 25 |
| 100 | Relationship between archaeal community structure and vegetation type in a fen on the Qinghai-Tibetan Plateau. <i>Biology and Fertility of Soils</i> , 2012, 48, 349-356. | 2.3 | 25 |
| 101 | A remote sensing model to estimate ecosystem respiration in Northern China and the Tibetan Plateau. <i>Ecological Modelling</i> , 2015, 304, 34-43. | 1.2 | 25 |
| 102 | Mixed grazing and clipping is beneficial to ecosystem recovery but may increase potential N ₂ O emissions in a semi-arid grassland. <i>Soil Biology and Biochemistry</i> , 2017, 114, 42-51. | 4.2 | 25 |
| 103 | How does biochar amendment affect soil methane oxidation? A review. <i>Journal of Soils and Sediments</i> , 2021, 21, 1575-1586. | 1.5 | 25 |
| 104 | Effects of warming and increased precipitation on soil carbon mineralization in an Inner Mongolian grassland after 6 years of treatments. <i>Biology and Fertility of Soils</i> , 2012, 48, 859-866. | 2.3 | 24 |
| 105 | Microbial community responses reduce soil carbon loss in Tibetan alpine grasslands under short-term warming. <i>Global Change Biology</i> , 2019, 25, 3438-3449. | 4.2 | 24 |
| 106 | Opposite effects of winter day and night temperature changes on early phenophases. <i>Ecology</i> , 2019, 100, e02775. | 1.5 | 24 |
| 107 | Title is missing!. <i>Nutrient Cycling in Agroecosystems</i> , 2002, 62, 195-202. | 1.1 | 22 |
| 108 | Nitrous oxide fluxes from the littoral zone of a lake on the Qinghai-Tibetan Plateau. <i>Environmental Monitoring and Assessment</i> , 2011, 182, 545-553. | 1.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Effects of warming and grazing on dissolved organic nitrogen in a Tibetan alpine meadow ecosystem. <i>Soil and Tillage Research</i> , 2016, 158, 156-164. | 2.6 | 22 |
| 110 | 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 |
| 111 | Tree mycorrhizal type and tree diversity shape the forest soil microbiota. <i>Environmental Microbiology</i> , 2022, 24, 4236-4255. | 1.8 | 22 |
| 112 | Uncertainty in simulating regional gross primary productivity from satellite-based models over northern China grassland. <i>Ecological Indicators</i> , 2018, 88, 134-143. | 2.6 | 21 |
| 113 | Soil extractable organic C and N contents, methanotrophic activity under warming and degradation in a Tibetan alpine meadow. <i>Agriculture, Ecosystems and Environment</i> , 2019, 278, 6-14. | 2.5 | 21 |
| 114 | Ag-Ag ₂ S quantum-dots modified TiO ₂ nanorod arrays with enhanced photoelectrochemical and photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2019, 780, 347-354. | 2.8 | 21 |
| 115 | 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 |
| 116 | Facile fabrication of ZnO nanorods modified Fe ₃ O ₄ nanoparticles with enhanced magnetic, photoelectrochemical and photocatalytic properties. <i>Optical Materials</i> , 2021, 111, 110608. | 1.7 | 21 |
| 117 | Slope class and grazing intensity effects on microorganisms and nitrogen transformation processes responsible for nitrous oxide emissions from hill pastures. <i>Agriculture, Ecosystems and Environment</i> , 2016, 217, 70-78. | 2.5 | 20 |
| 118 | Assessing the ability of potential evapotranspiration models in capturing dynamics of evaporative demand across various biomes and climatic regimes with ChinaFLUX measurements. <i>Journal of Hydrology</i> , 2017, 551, 70-80. | 2.3 | 20 |
| 119 | Seasonal timing regulates extreme drought impacts on CO ₂ and H ₂ O exchanges over semiarid steppes in Inner Mongolia, China. <i>Agriculture, Ecosystems and Environment</i> , 2018, 266, 153-166. | 2.5 | 20 |
| 120 | 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 |
| 121 | Diversity of methanotrophs in Zoige wetland soils under both anaerobic and aerobic conditions. <i>Journal of Environmental Sciences</i> , 2010, 22, 1232-1238. | 3.2 | 19 |
| 122 | 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 |
| 123 | Aerobic Methanotroph Diversity in Sanjiang Wetland, Northeast China. <i>Microbial Ecology</i> , 2015, 69, 567-576. | 1.4 | 19 |
| 124 | Facile synthesis of core-shell ZnO/Cu ₂ O heterojunction with enhanced visible light-driven photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 88, 172-180. | 1.1 | 19 |
| 125 | Differential response to warming of the uptake of nitrogen by plant species in non-degraded and degraded alpine grasslands. <i>Journal of Soils and Sediments</i> , 2019, 19, 2212-2221. | 1.5 | 19 |
| 126 | Net neutral carbon responses to warming and grazing in alpine grassland ecosystems. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107792. | 1.9 | 19 |

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|-----|--|-----|-----------|
| 127 | 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 |
| 128 | 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 |
| 129 | Uncertainty analysis of eddy flux measurements in typical ecosystems of ChinaFLUX. <i>Ecological Informatics</i> , 2010, 5, 492-502. | 2.3 | 18 |
| 130 | Effects of grazing on the acquisition of nitrogen by plants and microorganisms in an alpine grassland on the Tibetan plateau. <i>Plant and Soil</i> , 2017, 416, 297-308. | 1.8 | 18 |
| 131 | Annual ecosystem respiration is resistant to changes in freeze-thaw periods in semi-arid permafrost. <i>Global Change Biology</i> , 2020, 26, 2630-2641. | 4.2 | 18 |
| 132 | Attribution analyses of changes in alpine grasslands on the Qinghai-Tibetan Plateau. <i>Chinese Science Bulletin</i> , 2020, 65, 2406-2418. | 0.4 | 18 |
| 133 | Anaerobic methane oxidation linked to Fe(III) reduction in a <i>Candidatus Methanoperedens</i> -enriched consortium from the cold Zoige wetland at Tibetan Plateau. <i>Environmental Microbiology</i> , 2022, 24, 614-625. | 1.8 | 18 |
| 134 | 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 |
| 135 | Bioprospecting of rhamnolipids production and optimization by an oil-degrading <i>Pseudomonas</i> sp. S2WE isolated from freshwater lake. <i>Bioresource Technology</i> , 2021, 323, 124601. | 4.8 | 17 |
| 136 | Low-temperature strategy for vapor phase hydrothermal synthesis of CNS-doped TiO ₂ nanorod arrays with enhanced photoelectrochemical and photocatalytic activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 130-139. | 2.9 | 17 |
| 137 | Impacts of Diffuse Radiation on Light Use Efficiency across Terrestrial Ecosystems Based on Eddy Covariance Observation in China. <i>PLoS ONE</i> , 2014, 9, e110988. | 1.1 | 16 |
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