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List of Publications by Year
in descending order



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|---|---|---|---|
| 100 papers | 5,189 citations | 76196 40 h-index | 91712 69 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 3075 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Route Map for Successful Applications of Geographically Weighted Regression. Geographical Analysis, 2023, 55, 155-178. | 1.9 | 45 |
| 2 | Plant and soil elemental C:N:P ratios are linked to soil microbial diversity during grassland restoration on the Loess Plateau, China. Science of the Total Environment, 2022, 806, 150557. | 3.9 | 22 |
| 3 | Factors controlling the spatial variability of soil aggregates and associated organic carbon across a semi-humid watershed. Science of the Total Environment, 2022, 809, 151155. | 3.9 | 17 |
| 4 | Effect of topography on spatiotemporal patterns of soil moisture in a mountainous region of Northwest China. Geoderma Regional, 2022, 28, e00456. | 0.9 | 5 |
| 5 | Quantifying the spatio-temporal variability of total water content in seasonally frozen soil using actively heated fiber Bragg grating sensing. Journal of Hydrology, 2022, 606, 127386. | 2.3 | 6 |
| 6 | Evaluating three measurement methods of soil ground heat flux based on actively heated distributed temperature sensing technology. Engineering Geology, 2022, 303, 106649. | 2.9 | 3 |
| 7 | Deep root information â€œhidden in the darkâ€: A case study on the 21-m soil profile of Robinia pseudoacacia in the critical zone of the Chinese loess Plateau. Catena, 2022, 213, 106121. | 2.2 | 9 |
| 8 | Quantitative contribution of the Grain for Green Program to vegetation greening and its spatiotemporal variation across the Chinese Loess Plateau. Land Degradation and Development, 2022, 33, 1878-1891. | 1.8 | 12 |
| 9 | Spatialâ€“temporal dynamics and recovery mechanisms of dried soil layers under <i>Robinia pseudoacacia</i> forest based on inâ€situ field data from 2017 to 2020. Land Degradation and Development, 2022, 33, 2500-2511. | 1.8 | 3 |
| 10 | Increasing contribution of microbial residues to soil organic carbon in grassland restoration chronosequence. Soil Biology and Biochemistry, 2022, 170, 108688. | 4.2 | 62 |
| 11 | Spatiotemporal soil water storage variation comparison between newly formed and untreated gully land sites under a land restoration project and associated implications on land management. Ecological Engineering, 2022, 180, 106670. | 1.6 | 1 |
| 12 | Vertical patterns and controlling factors of soil nitrogen in deep profiles on the Loess Plateau of China. Catena, 2022, 215, 106318. | 2.2 | 5 |
| 13 | Spatial nonâ€stationary effects of explanatory variables on soil bulk density in the critical zone of the Chinese Loess Plateau. European Journal of Soil Science, 2022, 73, . | 1.8 | 1 |
| 14 | Effects of the sampling spacing on the spatial variability in soil organic carbon, total nitrogen, and total phosphorus across a semiarid watershed. Archives of Agronomy and Soil Science, 2021, 67, 1359-1374. | 1.3 | 0 |
| 15 | Nitrogen of EDDS enhanced removal of potentially toxic elements and attenuated their oxidative stress in a phytoextraction process. Environmental Pollution, 2021, 268, 115719. | 3.7 | 19 |
| 16 | Controlling gully- and revegetation-induced dried soil layers across a slopeâ€“gully system. Science of the Total Environment, 2021, 755, 142444. | 3.9 | 9 |
| 17 | Identifying the dominant effects of climate and land use change on soil water balance in deep loessial vadose zone. Agricultural Water Management, 2021, 245, 106637. | 2.4 | 15 |
| 18 | Impacts of land-use conversions on the water cycle in a typical watershed in the southern Chinese Loess Plateau. Journal of Hydrology, 2021, 593, 125741. | 2.3 | 52 |

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|---|---|---|---|
| 19 | Spatiotemporal characteristics of interday temperature fluctuations across the Loess Plateau of China. International Journal of Climatology, 2021, 41, 1821-1838. | 1.5 | 0 |
| 20 | Comparison of changes in vegetation and land cover types between Shenzhen and Bangkok. Land Degradation and Development, 2021, 32, 1192-1204. | 1.8 | 15 |
| 21 | Negative effects of multiple global change factors on soil microbial diversity. Soil Biology and Biochemistry, 2021, 156, 108229. | 4.2 | 97 |
| 22 | Linkage between soil ectoenzyme stoichiometry ratios and microbial diversity following the conversion of cropland into grassland. Agriculture, Ecosystems and Environment, 2021, 314, 107418. | 2.5 | 30 |
| 23 | Watershed spatial heterogeneity of soil saturated hydraulic conductivity as affected by landscape unit in the critical zone. Catena, 2021, 203, 105322. | 2.2 | 9 |
| 24 | Spatial variation and distribution of soil organic carbon in an urban ecosystem from high-density sampling. Catena, 2021, 204, 105364. | 2.2 | 12 |
| 25 | Quasi-distributed fiber-optic in-situ monitoring technology for large-scale measurement of soil water content and its application. Engineering Geology, 2021, 294, 106373. | 2.9 | 16 |
| 26 | Spatial and temporal variation in soil bulk density and saturated hydraulic conductivity and its influencing factors along a 500Âkm transect. Catena, 2021, 207, 105592. | 2.2 | 9 |
| 27 | Estimates and determinants of soil organic carbon and total nitrogen stocks up to 5 m depth across a long transect on the Loess Plateau of China. Journal of Soils and Sediments, 2021, 21, 748-765. | 1.5 | 8 |
| 28 | Sequential combustion separation of soil organic carbon fractions for AMS measurement of 14C and their application in fixation of carbon. Journal of Radioanalytical and Nuclear Chemistry, 2020, 323, 169-177. | 0.7 | 2 |
| 29 | Spatial variation of soil properties and carbon under different land use types on the Chinese Loess Plateau. Science of the Total Environment, 2020, 703, 134946. | 3.9 | 23 |
| 30 | Traditional dry soil layer index method overestimates soil desiccation severity following conversion of cropland into forest and grassland on Chinaâ€™s Loess Plateau. Agriculture, Ecosystems and Environment, 2020, 291, 106794. | 2.5 | 71 |
| 31 | Transference of Robinia pseudoacacia water-use patterns from deep to shallow soil layers during the transition period between the dry and rainy seasons in a water-limited region. Forest Ecology and Management, 2020, 457, 117727. | 1.4 | 31 |
| 32 | Variations in capacity and storage of plant-available water in deep profiles along a revegetation and precipitation gradient. Journal of Hydrology, 2020, 581, 124401. | 2.3 | 21 |
| 33 | Response of deep soil drought to precipitation, land use and topography across a semiarid watershed. Agricultural and Forest Meteorology, 2020, 282-283, 107866. | 1.9 | 18 |
| 34 | Sustainability of soil organic carbon in consolidated gully land in Chinaâ€™s Loess Plateau. Scientific Reports, 2020, 10, 16927. | 1.6 | 8 |
| 35 | Recent anthropogenic curtailing of Yellow River runoff and sediment load is unprecedented over the past 500 y. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18251-18257. | 3.3 | 77 |
| 36 | Soil extracellular enzyme stoichiometry reflects the shift from P- to N-limitation of microorganisms with grassland restoration. Soil Biology and Biochemistry, 2020, 149, 107928. | 4.2 | 114 |

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|---|---|---|---|
| 37 | Spatioâ€temporal variability of multiâ€layer soil water at a hillslope scale in the critical zone of the Chinese Loess Plateau. Hydrological Processes, 2020, 34, 4473-4486. | 1.1 | 3 |
| 38 | Policy development for sustainable soil water use on Chinaâ€™s Loess Plateau. Science Bulletin, 2020, 65, 2053-2056. | 4.3 | 33 |
| 39 | Influences of sample storage and grinding on the extraction of soil amino sugars. Soil Ecology Letters, 2020, 2, 157-163. | 2.4 | 13 |
| 40 | Spatiotemporal variations in deep soil moisture and its response to land-use shifts in the Windâ€“Water Erosion Crisscross Region in the Critical Zone of the Loess Plateau (2011â€“2015), China. Catena, 2020, 193, 104643. | 2.2 | 15 |
| 41 | A novel extracellular enzyme stoichiometry method to evaluate soil heavy metal contamination: Evidence derived from microbial metabolic limitation. Science of the Total Environment, 2020, 738, 139709. | 3.9 | 45 |
| 42 | Assessing the value of electrical resistivity derived soil water content: Insights from a case study in the Critical Zone of the Chinese Loess Plateau. Journal of Hydrology, 2020, 589, 125132. | 2.3 | 14 |
| 43 | Impacts of shrub introduction on soil properties and implications for dryland revegetation. Science of the Total Environment, 2020, 742, 140498. | 3.9 | 15 |
| 44 | Effects of valley reshaping and damming on surface and groundwater nitrate on the Chinese Loess Plateau. Journal of Hydrology, 2020, 584, 124702. | 2.3 | 19 |
| 45 | Evaluation of the environmental effects of intensive land consolidation: A field-based case study of the Chinese Loess Plateau. Land Use Policy, 2020, 94, 104523. | 2.5 | 34 |
| 46 | Re-evaluation of organic carbon pool from land surface down to bedrock on Chinaâ€™s Loess Plateau. Agriculture, Ecosystems and Environment, 2020, 293, 106842. | 2.5 | 15 |
| 47 | Soil moisture mediates microbial carbon and phosphorus metabolism during vegetation succession in a semiarid region. Soil Biology and Biochemistry, 2020, 147, 107814. | 4.2 | 140 |
| 48 | Specific-scale correlations between soil water content and relevant climate forcing factors across two climate zones. Journal of Hydrology, 2020, 585, 124800. | 2.3 | 6 |
| 49 | The sources and seasonal fluxes of particulate organic carbon in the Yellow River. Earth Surface Processes and Landforms, 2020, 45, 2004-2019. | 1.2 | 31 |
| 50 | Co-inoculation effect of plant-growth-promoting rhizobacteria and rhizobium on EDDS assisted phytoremediation of Cu contaminated soils. Chemosphere, 2020, 254, 126724. | 4.2 | 76 |
| 51 | Effects of land use and cultivation time on soil organic and inorganic carbon storage in deep soils. Journal of Chinese Geography, 2020, 30, 921-934. | 1.5 | 13 |
| 52 | Responses of soil bacterial communities, enzyme activities, and nutrients to agricultural-to-natural ecosystem conversion in the Loess Plateau, China. Journal of Soils and Sediments, 2019, 19, 1427-1440. | 1.5 | 51 |
| 53 | Spatial variation and soil nitrogen potential hotspots in a mixed land cover catchment on the Chinese Loess Plateau. Journal of Mountain Science, 2019, 16, 1353-1366. | 0.8 | 3 |
| 54 | Soil organic carbon fractions and 14C ages through 70 years of cropland cultivation. Soil and Tillage Research, 2019, 195, 104415. | 2.6 | 4 |

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| 55 | Effects of apple orchards converted from farmlands on soil water balance in the deep loess deposits based on HYDRUS-1D model. Agriculture, Ecosystems and Environment, 2019, 285, 106645. | 2.5 | 40 |
| 56 | Characterizing spatial-temporal patterns and abrupt changes in deep soil moisture across an intensively managed watershed. Geoderma, 2019, 341, 181-194. | 2.3 | 31 |
| 57 | Intensive land restoration profoundly alters the spatial and seasonal patterns of deep soil water storage at watershed scales. Agriculture, Ecosystems and Environment, 2019, 280, 129-141. | 2.5 | 18 |
| 58 | Revegetation has increased ecosystem water-use efficiency during 2000â€“2014 in the Chinese Loess Plateau: Evidence from satellite data. Ecological Indicators, 2019, 102, 507-518. | 2.6 | 68 |
| 59 | Soil Aggregation and Aggregateâ€Associated Organic C and Total N as Affected by Revegetation Pattern at a Surface Mine on the Loess Plateau, China. Soil Science Society of America Journal, 2019, 83, 388-397. | 1.2 | 11 |
| 60 | Relationships between the characteristics of soil and understory in a Pinus massoniana forest in southern China. Catena, 2019, 176, 352-361. | 2.2 | 8 |
| 61 | Disentangling the formation and evolvement mechanism of plants-induced dried soil layers on Chinaâ€™s Loess Plateau. Agricultural and Forest Meteorology, 2019, 269-270, 57-70. | 1.9 | 58 |
| 62 | Exploring the role of land restoration in the spatial patterns of deep soil water at watershed scales. Catena, 2019, 172, 387-396. | 2.2 | 35 |
| 63 | Valley reshaping and damming induce water table rise and soil salinization on the Chinese Loess Plateau. Geoderma, 2019, 339, 115-125. | 2.3 | 63 |
| 64 | A new index to quantify dried soil layers in water-limited ecosystems: A case study on the Chinese Loess Plateau. Geoderma, 2018, 322, 1-11. | 2.3 | 52 |
| 65 | Exploring Scaleâ€Specific Controls on Soil Water Content across a 500â€Kilometer Transect Using Multivariate Empirical Mode Decomposition. Vadose Zone Journal, 2018, 17, 1-12. | 1.3 | 12 |
| 66 | Soil moisture response to rainfall on the <scp>Chinese Loess Plateau</scp> after a longâ€term vegetation rehabilitation. Hydrological Processes, 2018, 32, 1738-1754. | 1.1 | 67 |
| 67 | Soil Drought and Water Carrying Capacity for Vegetation in the Critical Zone of the Loess Plateau: A Review. Vadose Zone Journal, 2018, 17, 1-8. | 1.3 | 75 |
| 68 | Spatial and temporal variability of 0â€to 5â€m soilâ€“water storage at the watershed scale. Hydrological Processes, 2018, 32, 2557-2569. | 1.1 | 11 |
| 69 | Responses of soil microbial communities to nutrient limitation in the desert-grassland ecological transition zone. Science of the Total Environment, 2018, 642, 45-55. | 3.9 | 94 |
| 70 | Estimating regional losses of soil water due to the conversion of agricultural land to forest in China's Loess Plateau. Ecohydrology, 2017, 10, e1851. | 1.1 | 53 |
| 71 | Evaluation of AMSR-E retrieval by detecting soil moisture decrease following massive dryland re-vegetation in the Loess Plateau, China. Remote Sensing of Environment, 2017, 196, 253-264. | 4.6 | 64 |
| 72 | Soil-water storage to a depth of 5 m along a 500-km transect on the Chinese Loess Plateau. Catena, 2017, 150, 71-78. | 2.2 | 27 |

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|---|---|---|---|
| 73 | Proper land use for heavy metal-polluted soil based on enzyme activity analysis around a Pb-Zn mine in Feng County, China. Environmental Science and Pollution Research, 2017, 24, 28152-28164. | 2.7 | 50 |
| 74 | Costimulation of soil glycosidase activity and soil respiration by nitrogen addition. Global Change Biology, 2017, 23, 1328-1337. | 4.2 | 154 |
| 75 | Soil Organic Carbon Stocks in Deep Soils at a Watershed Scale on the Chinese Loess Plateau. Soil Science Society of America Journal, 2016, 80, 157-167. | 1.2 | 55 |
| 76 | Comparing watershed black locust afforestation and natural revegetation impacts on soil nitrogen on the Loess Plateau of China. Scientific Reports, 2016, 6, 25048. | 1.6 | 21 |
| 77 | Spatiotemporal analysis of multiscalar drought characteristics across the Loess Plateau of China. Journal of Hydrology, 2016, 534, 281-299. | 2.3 | 153 |
| 78 | Exploring the effects of landscape structure on aerosol optical depth (AOD) patterns using GIS and HJ-1B images. Environmental Sciences: Processes and Impacts, 2016, 18, 265-276. | 1.7 | 7 |
| 79 | Vertical distribution and temporal stability of soil water in 21-m profiles under different land uses on the Loess Plateau in China. Journal of Hydrology, 2015, 527, 543-554. | 2.3 | 79 |
| 80 | Spatial Variability of Soil Parameters of the van Genuchten Model at a Regional Scale. Clean - Soil, Air, Water, 2015, 43, 271-278. | 0.7 | 32 |
| 81 | Characteristics of Dried Soil Layers Under Apple Orchards of Different Ages and Their Applications in Soil Water Managements on the Loess Plateau of China. Pedosphere, 2015, 25, 546-554. | 2.1 | 87 |
| 82 | Soil organic carbon in deep profiles under Chinese continental monsoon climate and its relations with land uses. Ecological Engineering, 2015, 82, 361-367. | 1.6 | 58 |
| 83 | Choosing an optimal land-use pattern for restoring eco-environments in a semiarid region of the Chinese Loess Plateau. Ecological Engineering, 2015, 74, 213-222. | 1.6 | 69 |
| 84 | Prediction of Bulk Density of Soils in the Loess Plateau Region of China. Surveys in Geophysics, 2014, 35, 395-413. | 2.1 | 49 |
| 85 | Natural vegetation restoration is more beneficial to soil surface organic and inorganic carbon sequestration than tree plantation on the Loess Plateau of China. Science of the Total Environment, 2014, 485-486, 615-623. | 3.9 | 91 |
| 86 | Hillslope scale temporal stability of soil water storage in diverse soil layers. Journal of Hydrology, 2013, 498, 254-264. | 2.3 | 105 |
| 87 | Regional-scale variation and distribution patterns of soil saturated hydraulic conductivities in surface and subsurface layers in the loessial soils of China. Journal of Hydrology, 2013, 487, 13-23. | 2.3 | 86 |
| 88 | Vertical distribution and influencing factors of soil water content within 21-m profile on the Chinese Loess Plateau. Geoderma, 2013, 193-194, 300-310. | 2.3 | 146 |
| 89 | Spatial patterns of soil total nitrogen and soil total phosphorus across the entire Loess Plateau region of China. Geoderma, 2013, 197-198, 67-78. | 2.3 | 193 |
| 90 | Filling Gullies to Create Farmland on the Loess Plateau. Environmental Science & Technology, 2013, 47, 7589-7590. | 4.6 | 45 |

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| 91 | Scale-dependent correlations between soil properties and environmental factors across the Loess Plateau of China. Soil Research, 2013, 51, 112. | 0.6 | 12 |
| 92 | Pedotransfer Functions for Predicting Soil Hydraulic Properties of the Chinese Loess Plateau. Soil Science, 2012, 177, 424-432. | 0.9 | 40 |
| 93 | Regional spatial pattern of deep soil water content and its influencing factors. Hydrological Sciences Journal, 2012, 57, 265-281. | 1.2 | 92 |
| 94 | Investigation of Factors Controlling the Regional-Scale Distribution of Dried Soil Layers Under Forestland on the Loess Plateau, China. Surveys in Geophysics, 2012, 33, 311-330. | 2.1 | 51 |
| 95 | Impacts of land use and plant characteristics on dried soil layers in different climatic regions on the Loess Plateau of China. Agricultural and Forest Meteorology, 2011, 151, 437-448. | 1.9 | 421 |
| 96 | Effect of environmental factors on regional soil organic carbon stocks across the Loess Plateau region, China. Agriculture, Ecosystems and Environment, 2011, 142, 184-194. | 2.5 | 228 |
| 97 | A preliminary investigation of the dynamic characteristics of dried soil layers on the Loess Plateau of China. Journal of Hydrology, 2010, 381, 9-17. | 2.3 | 255 |
| 98 | Large-scale spatial variability of dried soil layers and related factors across the entire Loess Plateau of China. Geoderma, 2010, 159, 99-108. | 2.3 | 176 |
| 99 | Infiltration characteristics of non-aqueous phase liquids in undisturbed loessal soil cores. Journal of Environmental Sciences, 2009, 21, 1424-1431. | 3.2 | 13 |
| 100 | Spatial variability of soil total nitrogen and soil total phosphorus under different land uses in a small watershed on the Loess Plateau, China. Geoderma, 2009, 150, 141-149. | 2.3 | 256 |