# Gang-cai Liu

List of Publications by Year
in descending order



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|---|---|---|---|
| 36 papers | 842 citations | 623574 14 h-index | 501076 28 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 1009 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Spatial prediction of soil organic matter content integrating artificial neural network and ordinary kriging in Tibetan Plateau. Ecological Indicators, 2014, 45, 184-194. | 2.6 | 178 |
| 2 | Characterizing the morphology of gully cross-sections based on PCA: A case of Yuanmou Dry-Hot Valley. Geomorphology, 2015, 228, 703-713. | 1.1 | 71 |
| 3 | Plants adapted to nutrient limitation allocate less biomass into stems in an aridâ€hot grassland. New Phytologist, 2016, 211, 1232-1240. | 3.5 | 61 |
| 4 | Effects of vegetation restoration types on soil quality in Yuanmou dry-hot valley, China. Soil Science and Plant Nutrition, 2013, 59, 347-360. | 0.8 | 51 |
| 5 | Laboratory investigation of disintegration characteristics of purple mudstone under different hydrothermal conditions. Journal of Mountain Science, 2012, 9, 127-136. | 0.8 | 39 |
| 6 | Experimental study on the development of collapse of overhanging layers of gully in Yuanmou Valley, China. Catena, 2013, 109, 177-185. | 2.2 | 35 |
| 7 | Nitrogen and phosphorus associating with different size suspended solids in roof and road runoff in Beijing, China. Environmental Science and Pollution Research, 2015, 22, 15788-15795. | 2.7 | 33 |
| 8 | The effects of agricultural management on selected soil properties of the arable soils in Tibet, China. Catena, 2012, 93, 1-8. | 2.2 | 31 |
| 9 | Identification and application of amino acids as chelators in phytoremediation of rare earth elements lanthanum and yttrium. Plant and Soil, 2013, 373, 329-338. | 1.8 | 31 |
| 10 | Impacts of simulated acid solution on the disintegration and cation release of purple rock (mudstone) in Southwest China. Geomorphology, 2018, 316, 35-43. | 1.1 | 28 |
| 11 | Temporal variation of soil organic matter content and potential determinants in Tibet, China. Catena, 2011, 85, 288-294. | 2.2 | 27 |
| 12 | Quantitative determination of the effect of temperature on mudstone decay during wetâ€“dry cycles: A case study of â€˜purple mudstoneâ€™ from south-western China. Geomorphology, 2015, 246, 1-6. | 1.1 | 27 |
| 13 | A quantitative determination of the effect of moisture on purple mudstone decay in Southwestern China. Catena, 2016, 139, 28-31. | 2.2 | 19 |
| 14 | Assessment of regional ecological security based on ecological footprint and influential factors analysis: a case study of Chongqing Municipality, China. International Journal of Sustainable Development and World Ecology, 2010, 17, 390-400. | 3.2 | 17 |
| 15 | Effect of moisture and temperature conditions on the decay rate of a purple mudstone in southwestern China. Geomorphology, 2013, 182, 125-132. | 1.1 | 15 |
| 16 | Morphology and controlling factors of the longitudinal profile of gullies in the Yuanmou dry-hot valley. Journal of Mountain Science, 2017, 14, 674-693. | 0.8 | 15 |
| 17 | Determination of nitrogen and phosphorus fertilisation rates for tobacco based on economic response and nutrient concentrations in local stream water. Agriculture, Ecosystems and Environment, 2020, 304, 107136. | 2.5 | 14 |
| 18 | Physico-chemical properties and enzyme activities of the arable soils in Lhasa, Tibet, China. Journal of Mountain Science, 2012, 9, 558-569. | 0.8 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Spatio-temporal trends and causes of variations in runoff and sediment load of the Jinsha River in China. Journal of Mountain Science, 2019, 16, 2361-2378. | 0.8 | 13 |
| 20 | Characteristics of surface runoff and throughflow in a purple soil of Southwestern China under various rainfall events. Hydrological Processes, 2005, 19, 1883-1891. | 1.1 | 12 |
| 21 | Planar morphology and controlling factors of the gullies in the Yuanmou Dry-hot Valley based on field investigation. Journal of Arid Land, 2015, 7, 778-793. | 0.9 | 12 |
| 22 | Hydrochemistry of waters in snowpacks, lakes and streams of Mt. Dagu, eastern of Tibet Plateau. Science of the Total Environment, 2018, 610-611, 641-650. | 3.9 | 12 |
| 23 | Vegetation rehabilitation increases soil enzyme activities in degraded land via carbon supply and nitrogen retention. European Journal of Soil Biology, 2020, 98, 103186. | 1.4 | 12 |
| 24 | A quantification of the effects of erosion on the productivity of purple soils. Journal of Mountain Science, 2012, 9, 96-104. | 0.8 | 11 |
| 25 | Responses of Dodonaea viscosa growth and soil biological properties to nitrogen and phosphorus additions in Yuanmou dry-hot valley. Journal of Mountain Science, 2018, 15, 1283-1298. | 0.8 | 10 |
| 26 | The effects of land uses on purplish soil erosion in hilly area of Sichuan Province, China. Journal of Mountain Science, 2005, 2, 68-75. | 0.8 | 9 |
| 27 | Spatial and temporal dynamics of soil moisture after rainfall events along a slope in Regosols of southwest China. Hydrological Processes, 2007, 21, 2778-2784. | 1.1 | 8 |
| 28 | Variation of rill cross-sections with gravel and aggregating soil in the Dry-Hot Valley (SW China). Modeling Earth Systems and Environment, 2019, 5, 1239-1252. | 1.9 | 7 |
| 29 | Temperature and soil microorganisms interact to affect Dodonaea viscosa growth on mountainsides. Plant Ecology, 2018, 219, 759-774. | 0.7 | 6 |
| 30 | Experimental investigations of the evolution of step-pools in rills with heterogeneous soils in Yuanmou Dry-Hot Valley, SW China. Catena, 2020, 194, 104690. | 2.2 | 6 |
| 31 | Modeling the morphology of gully cross sections in the Yuanmou Dry-hot Valley. Physical Geography, 2017, 38, 448-469. | 0.6 | 4 |
| 32 | Estimating individual- and stand-level stem CO2 efflux in a subalpine forest: assessment of different extrapolation methods. Trees - Structure and Function, 2019, 33, 1603-1613. | 0.9 | 4 |
| 33 | Response of the soil bacterial community to reciprocal soil translocation along an elevation and temperature landscape gradient. Applied Soil Ecology, 2020, 147, 103357. | 2.1 | 4 |
| 34 | Environmental drivers of soil microbial activity and diversity along an elevational gradient. Journal of Mountain Science, 2022, 19, 1336-1347. | 0.8 | 4 |
| 35 | Spatiotemporal variation of soil organic carbon in the cultivated soil layer of dry land in the South-Western Yunnan Plateau, China. Journal of Mountain Science, 2017, 14, 2484-2497. | 0.8 | 2 |
| 36 | Plantâ€“soil feedback effects on the performance and functional traits of Dodonaea viscosa in a dry-hot valley, China. Plant Ecology, 2021, 222, 1209-1224. | 0.7 | 1 |