

Chongfa Cai

List of Publications by Year in descending order

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40
papers

1,115
citations

430874

18
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution and Prediction of Landscape Pattern and Habitat Quality Based on CA-Markov and InVEST Model in Hubei Section of Three Gorges Reservoir Area (TGRA). <i>Sustainability</i> , 2018, 10, 3854.	3.2	90
2	Splash erosion of clay-sand mixtures and its relationship with soil physical properties: The effects of particle size distribution on soil structure. <i>Catena</i> , 2015, 135, 254-262.	5.0	71
3	Fractal features of soil particle-size distribution of different weathering profiles of the collapsing gullies in the hilly granitic region, south China. <i>Natural Hazards</i> , 2015, 79, 455-478.	3.4	70
4	Granite residual soil properties in collapsing gullies of south China: spatial variations and effects on collapsing gully erosion. <i>Catena</i> , 2019, 174, 469-477.	5.0	64
5	Effects of soil physicochemical properties on aggregate stability along a weathering gradient. <i>Catena</i> , 2017, 156, 205-215.	5.0	60
6	Effects of soil type and rainfall intensity on sheet erosion processes and sediment characteristics along the climatic gradient in central-south China. <i>Science of the Total Environment</i> , 2018, 621, 54-66.	8.0	60
7	The effect of water content on the shear strength characteristics of granitic soils in South China. <i>Soil and Tillage Research</i> , 2019, 187, 50-59.	5.6	58
8	Spatial variations of aggregate stability in relation to sesquioxides for zonal soils, South-central China. <i>Soil and Tillage Research</i> , 2016, 157, 11-22.	5.6	52
9	Soil Atterberg limits of different weathering profiles of the collapsing gullies in the hilly granitic region of southern China. <i>Solid Earth</i> , 2017, 8, 499-513.	2.8	49
10	Effects of erosion degree and rainfall intensity on erosion processes for Ultisols derived from quaternary red clay. <i>Agriculture, Ecosystems and Environment</i> , 2017, 249, 226-236.	5.3	46
11	Suction stress characteristics in granite red soils and their relationship with the collapsing gully in south China. <i>Catena</i> , 2018, 171, 505-522.	5.0	40
12	Fractal features of soil particle size distribution under different land-use patterns in the alluvial fans of collapsing gullies in the hilly granitic region of southern China. <i>PLoS ONE</i> , 2017, 12, e0173555.	2.5	36
13	Mechanical properties and soil stability affected by fertilizer treatments for an Ultisol in subtropical China. <i>Plant and Soil</i> , 2013, 363, 157-174.	3.7	31
14	Can Benggang be regarded as gully erosion?. <i>Catena</i> , 2021, 207, 105648.	5.0	30
15	RUSLE erodibility of heavy-textured soils as affected by soil type, erosional degradation, and rainfall intensity: A field simulation. <i>Land Degradation and Development</i> , 2018, 29, 408-421.	3.9	29
16	Soil detachment by overland flow on hillslopes with permanent gullies in the Granite area of southeast China. <i>Catena</i> , 2019, 183, 104235.	5.0	28
17	Drivers of the national and regional crop production-derived greenhouse gas emissions in China. <i>Journal of Cleaner Production</i> , 2020, 257, 120503.	9.3	28
18	Interaction mechanisms and kinetics of ferrous ion and hexagonal birnessite in aqueous systems. <i>Geochemical Transactions</i> , 2015, 16, 16.	0.7	22

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19	Spatial variations of aggregate-associated humic substance in heavy-textured soils along a climatic gradient. <i>Soil and Tillage Research</i> , 2020, 197, 104497.	5.6	20
20	Variation of Soil Aggregation along the Weathering Gradient: Comparison of Grain Size Distribution under Different Disruptive Forces. <i>PLoS ONE</i> , 2016, 11, e0160960.	2.5	20
21	A Novel and Facile Method for Characterizing Shrinkage Geometry along the Granitic Soil Profile. <i>Soil Science Society of America Journal</i> , 2018, 82, 20-30.	2.2	19
22	Effect of joint structure and slope direction on the development of collapsing gully in tuffaceous sandstone area in South China. <i>International Soil and Water Conservation Research</i> , 2020, 8, 131-140.	6.5	18
23	Changes of soil quality induced by different vegetation restoration in the collapsing gully erosion areas of southern China. <i>International Soil and Water Conservation Research</i> , 2021, 9, 195-206.	6.5	18
24	Identification of geo-environmental factors on Benggang susceptibility and its spatial modelling using comparative data-driven methods. <i>Soil and Tillage Research</i> , 2021, 208, 104857.	5.6	15
25	Erosion processes and features for a coarse-textured soil with different horizons: a laboratory simulation. <i>Journal of Soils and Sediments</i> , 2020, 20, 2997-3012.	3.0	13
26	A simulated study of surface morphological evolution on coarse-textured soils under intermittent rainfall events. <i>Catena</i> , 2022, 208, 105767.	5.0	13
27	Linkage between aggregate stability of granitic soils and the permanent gully erosion in subtropical China. <i>Soil and Tillage Research</i> , 2022, 221, 105411.	5.6	13
28	Effect of soil moisture on soil disintegration characteristics of different weathering profiles of collapsing gully in the hilly granitic region, South China. <i>PLoS ONE</i> , 2018, 13, e0209427.	2.5	12
29	Analysis of gully erosion susceptibility and spatial modelling using a GIS-based approach. <i>Geoderma</i> , 2022, 420, 115869.	5.1	12
30	Hydrological Response of Sloping Farmlands with Different Rock Fragment Covers in the Purple Soil Area of China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013, 18, 446-456.	1.9	11
31	Effects of erosion-induced land degradation on effective sediment size characteristics in sheet erosion. <i>Catena</i> , 2020, 195, 104843.	5.0	11
32	Estimation of soil detachment capacity on steep slopes in permanent gullies under wetting-drying cycles. <i>Catena</i> , 2021, 206, 105450.	5.0	10
33	High Rate of Nitrogen Fertilization Increases the Crop Water Stress Index of Corn under Soil Drought. <i>Communications in Soil Science and Plant Analysis</i> , 2012, 43, 2865-2877.	1.4	8
34	Variations of soil hydraulic properties along granitic slopes in Benggang erosion areas. <i>Journal of Soils and Sediments</i> , 2021, 21, 1177-1189.	3.0	8
35	Linking soil thickness and plot-scale hydrological processes on the sloping lands in the Three Gorges Area of China: a hydroopedological approach. <i>Hydrological Processes</i> , 2012, 26, 2248-2263.	2.6	7
36	Degradation Characteristics of Soil-Quality-Related Physical and Chemical Properties Affected by Collapsing Gully: The Case of Subtropical Hilly Region, China. <i>Sustainability</i> , 2019, 11, 3369.	3.2	7

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37	Impact of erosion-induced land degradation on rainfall infiltration in different types of soils under field simulation. <i>Land Degradation and Development</i> , 2019, 30, 1751-1764.	3.9	7
38	Relationship between granitic soil particle-size distribution and shrinkage properties based on multifractal method. <i>Pedosphere</i> , 2020, 30, 853-862.	4.0	5
39	Does joint structure promote the development of gully erosion?. <i>Catena</i> , 2022, 214, 106233.	5.0	4
40	Regional Assessment of Eco-environmental Vulnerability Based on GIS A Case Study of Hubei Province, China. , 2009, , .		0