Hong-song Chen

List of Publications by Year
in descending order

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74 papers	4,027 citations	147801 31 h-index	123424 61 g-index
79 all docs	79 docs citations	79 times ranked	2378 citing authors

#	Article	IF	Citations
1	What roles can water-stressed vegetation play in agricultural droughts?. Science of the Total Environment, 2022, 803, 149810.	8.0	11
2	Rainfall-runoff characteristics and their threshold behaviors on a karst hillslope in a peak-cluster depression region. Journal of Hydrology, 2022, 605, 127370.	5.4	28
3	Lithologic control of microbial-derived carbon in forest soils. Soil Biology and Biochemistry, 2022, 167, 108600.	8.8	18
4	Effects of Different Straw Mulch Rates on the Runoff and Sediment Yield of Young Citrus Orchards with Lime Soil and Red Soil under Simulated Rainfall Conditions in Southwest China. Water (Switzerland), 2022, 14, 1119.	2.7	5
5	Soil thickness controls the rainfall-runoff relationship at the karst hillslope critical zone in southwest China. Journal of Hydrology, 2022, 609, 127779.	5.4	22
6	Isotopic deviations of water extracted from carbonate soil by cryogenic vacuum extraction: implication for root water uptake analysis. Plant and Soil, 2022, 475, 79-89.	3.7	7
7	Effect of soil thickness on rainfall infiltration and runoff generation from karst hillslopes during rainstorms. European Journal of Soil Science, 2022, 73, .	3.9	21
8	Water uptake depth is coordinated with leaf water potential, waterâ€use efficiency and drought vulnerability in karst vegetation. New Phytologist, 2021, 229, 1339-1353.	7.3	93
9	Soil organic carbon stock and its changes in a typical karst area from 1983 to 2015. Journal of Soils and Sediments, 2021, 21, 42-51.	3.0	6
10	Divergent root water uptake depth and coordinated hydraulic traits among typical karst plantations of subtropical China: Implication for plant water adaptation under precipitation changes. Agricultural Water Management, 2021, 249, 106798.	5.6	20
11	Soil carbon accumulation with increasing temperature under both managed and natural vegetation restoration in calcareous soils. Science of the Total Environment, 2021, 767, 145298.	8.0	29
12	Effects of vegetation restoration on soil properties along an elevation gradient in the karst region of southwest China. Agriculture, Ecosystems and Environment, 2021, 320, 107572.	5.3	32
13	Replenishment and mean residence time of root-zone water for woody plants growing on rocky outcrops in a subtropical karst critical zone. Journal of Hydrology, 2021, 603, 127136.	5.4	6
14	Mechanisms of surface and subsurface runoff generation in subtropical soil-epikarst systems: Implications of rainfall simulation experiments on karst slope. Journal of Hydrology, 2020, 580, 124370.	5.4	46
15	Hydrological response of karst stream to precipitation variation recognized through the quantitative separation of runoff components. Science of the Total Environment, 2020, 748, 142483.	8.0	15
16	Seasonal recharge of spring and stream waters in a karst catchment revealed by isotopic and hydrochemical analyses. Journal of Hydrology, 2020, 591, 125595.	5.4	32
17	Common Species Maintain a Large Root Radial Extent and a Stable Resource Use Status in Soil-Limited Environments: A Case Study in Subtropical China. Frontiers in Plant Science, 2020, 11, 1260.	3.6	8
18	Separating the relative contributions of climate change and ecological restoration to runoff change in a mesoscale karst basin. Catena, 2020, 194, 104705.	5.0	22

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19	Tillage induces rapid loss of organic carbon in large macroaggregates of calcareous soils. Soil and Tillage Research, 2020, 199, 104549.	5.6	34
20	Assessment of underground soil loss via the tapering grikes on limestone hillslopes. Agriculture, Ecosystems and Environment, 2020, 297, 106935.	5.3	28
21	Comparison of woody species composition between rocky outcrops and nearby matrix vegetation on degraded karst hillslopes of Southwest China. Journal of Forestry Research, 2019, 30, 911-920.	3.6	16
22	Karst landscapes of China: patterns, ecosystem processes and services. Landscape Ecology, 2019, 34, 2743-2763.	4.2	257
23	Influencing factors on soil nutrients at different scales in a karst area. Catena, 2019, 175, 411-420.	5.0	26
24	Generalized reference evapotranspiration models with limited climatic data based on random forest and gene expression programming in Guangxi, China. Agricultural Water Management, 2019, 221, 220-230.	5.6	79
25	Qualitative identification of hydrologically different water sources used by plants in rock-dominated environments. Journal of Hydrology, 2019, 573, 386-394.	5.4	21
26	Dynamic variations in profile soil water on karst hillslopes in Southwest China. Catena, 2019, 172, 655-663.	5.0	57
27	Evaluation of remote sensingâ€based evapotranspiration estimates using a water transfer numerical simulation under different vegetation conditions in an arid area. Hydrological Processes, 2018, 32, 1801-1813.	2.6	5
28	Soil nutrients and stoichiometric ratios as affected by land use and lithology at county scale in a karst area, southwest China. Science of the Total Environment, 2018, 619-620, 1299-1307.	8.0	81
29	Increased vegetation growth and carbon stock in China karst via ecological engineering. Nature Sustainability, 2018, 1, 44-50.	23.7	460
30	Preferential Flow in Different Soil Architectures of a Small Karst Catchment. Vadose Zone Journal, 2018, 17, 1-10.	2.2	19
31	A novel approach for estimating groundwater use by plants in rock-dominated habitats. Journal of Hydrology, 2018, 565, 760-769.	5.4	28
32	Water source segregation along successional stages in a degraded karst region of subtropical China. Journal of Vegetation Science, 2018, 29, 933-942.	2.2	7
33	Dynamics of soil organic carbon and nitrogen following agricultural abandonment in a karst region. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 230-242.	3.0	85
34	Evaluation of the spatial pattern of surface soil water content of a karst hillslope in Southwest China using a state-space approach. Archives of Agronomy and Soil Science, 2017, 63, 1800-1813.	2.6	4
35	Analysis of soil water movement inside a footslope and a depression in a karst catchment, Southwest China. Scientific Reports, 2017, 7, 2544.	3.3	42
36	Comparison of Rooting Strategies to Explore Rock Fractures for Shallow Soil-Adapted Tree Species with Contrasting Aboveground Growth Rates: A Greenhouse Microcosm Experiment. Frontiers in Plant Science, 2017, 8, 1651.	3.6	13

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37	Role of epikarst in near-surface hydrological processes in a soil mantled subtropical dolomite karst slope: implications of field rainfall simulation experiments. Hydrological Processes, 2016, 30, 795-811.	2.6	82
38	Hydraulic properties of karst fractures filled with soils and regolith materials: Implication for their ecohydrological functions. Geoderma, 2016, 276, 93-101.	5.1	40
39	Rapid recuperation of soil nitrogen following agricultural abandonment in a karst area, southwest China. Biogeochemistry, 2016, 129, 341-354.	3.5	87
40	Surface soil water content and its controlling factors in a small karst catchment. Environmental Earth Sciences, 2016, 75, 1.	2.7	22
41	Temporal stability analysis of surface soil water content on two karst hillslopes in southwest China. Environmental Science and Pollution Research, 2016, 23, 25267-25279.	5.3	12
42	Structure and water storage capacity of a small karst aquifer based on stream discharge in southwest China. Journal of Hydrology, 2016, 534, 50-62.	5.4	48
43	Soil erosion rates in two karst peak-cluster depression basins of northwest Guangxi, China: Comparison of the RUSLE model with 137Cs measurements. Geomorphology, 2016, 253, 217-224.	2.6	101
44	Spatial variability of shallow soil moisture and its stable isotope values on a karst hillslope. Geoderma, 2016, 264, 61-70.	5.1	31
45	Modeling daily reference ET in the karst area of northwest Guangxi (China) using gene expression programming (GEP) and artificial neural network (ANN). Theoretical and Applied Climatology, 2016, 126, 493-504.	2.8	23
46	Seasonal recharge and mean residence times of soil and epikarst water in a small karst catchment of southwest China. Scientific Reports, 2015, 5, 10215.	3.3	56
47	Vertical distribution of soil saturated hydraulic conductivity and its influencing factors in a small karst catchment in Southwest China. Environmental Monitoring and Assessment, 2015, 187, 92.	2.7	51
48	Effects of monoculture and mixed culture of grass and legume forage species on soil microbial community structure under different levels of nitrogen fertilization. European Journal of Soil Biology, 2015, 68, 61-68.	3.2	75
49	Changes in nitrogen and phosphorus limitation during secondary succession in a karst region in southwest China. Plant and Soil, 2015, 391, 77-91.	3.7	198
50	Spatial variability of surface soil saturated hydraulic conductivity in a small karst catchment of southwest China. Environmental Earth Sciences, 2015, 74, 2381-2391.	2.7	42
51	Modeling soil erosion using a spatially distributed model in a karst catchment of northwest Guangxi, China. Earth Surface Processes and Landforms, 2014, 39, 2121-2130.	2.5	33
52	Seasonal variations in leaf Î´13C values: implications for different water-use strategies among species growing on continuous dolomite outcrops in subtropical China. Acta Physiologiae Plantarum, 2014, 36, 2571-2579.	2.1	32
53	Rooting characteristics of two widely distributed woody plant species growing in different karst habitats of southwest China. Plant Ecology, 2014, 215, 1099-1109.	1.6	63
54	Effects of the implementation of ecological restoration policies on soil organic carbon storage in a discontinuous soil region. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2014, 64, 97-108.	0.6	0

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55	Dynamics of soil profile water content in peak-cluster depression areas in karst region. Chinese Journal of Eco-Agriculture, 2013, 21, 1225-1232.	0.1	7
56	Soil organic carbon and total nitrogen as affected by land use types in karst and nonâ€karst areas of northwest Guangxi, China. Journal of the Science of Food and Agriculture, 2012, 92, 1086-1093.	3.5	70
57	Ancillary information improves kriging on soil organic carbon data for a typical karst peak cluster depression landscape. Journal of the Science of Food and Agriculture, 2012, 92, 1094-1102.	3.5	41
58	Soil hydraulic properties on the steep karst hillslopes in northwest Guangxi, China. Environmental Earth Sciences, 2012, 66, 371-379.	2.7	45
59	Water source utilization by woody plants growing on dolomite outcrops and nearby soils during dry seasons in karst region of Southwest China. Journal of Hydrology, 2012, 420-421, 264-274.	5.4	127
60	Anti-soil erodibility of different land use types in Northwest Guangxi Karst Regions. Chinese Journal of Eco-Agriculture, 2012, 20, 105-110.	0.1	5
61	Spatial distribution of rock fragments on steep hillslopes in karst region of northwest Guangxi, China. Catena, 2011, 84, 21-28.	5.0	104
62	Seasonal water use patterns of woody species growing on the continuous dolostone outcrops and nearby thin soils in subtropical China. Plant and Soil, 2011, 341, 399-412.	3.7	142
63	Using the radial basis function network model to assess rocky desertification in northwest Guangxi, China. Environmental Earth Sciences, 2011, 62, 69-76.	2.7	29
64	Spatial Variability of Surface Soil Moisture in a Depression Area of Karst Region. Clean - Soil, Air, Water, 2011, 39, 619-625.	1.1	31
65	Soil moisture dynamics under different land uses on karst hillslope in northwest Guangxi, China. Environmental Earth Sciences, 2010, 61, 1105-1111.	2.7	82
66	Impacts of land use and land cover changes upon organic productivity values in Karst ecosystems: a case study of Northwest Guangxi, China. Frontiers of Earth Science, 2010, 4, 3-13.	0.5	9
67	Exploring the relationship between vegetation spectra and eco-geo-environmental conditions in karst region, Southwest China. Environmental Monitoring and Assessment, 2010, 160, 157-168.	2.7	16
68	Leaf Î´¹³C of plants in different vegetation succession stages on karst hillslope of Northwest Guangxi, China. Chinese Journal of Eco-Agriculture, 2010, 18, 1223-1227.	0.1	1
69	Impacts of land use and land cover changes upon oxygen regulation values for the Karst Ecosystem: a case study of Northwest Guangxi, China. , 2009, , .		2
70	Positive correlation between soil bacterial metabolic and plant species diversity and bacterial and fungal diversity in a vegetation succession on Karst. Plant and Soil, 2008, 307, 123-134.	3.7	74
71	The characteristics of soil water cycle and water balance on steep grassland under natural and simulated rainfall conditions in the Loess Plateau of China. Journal of Hydrology, 2008, 360, 242-251.	5.4	173
72	Soil desiccation in the Loess Plateau of China. Geoderma, 2008, 143, 91-100.	5.1	351

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73	The Heterogeneity and Its Influencing Factors of Soil Nutrients in Peak-Cluster Depression Areas of Karst Region. Agricultural Sciences in China, 2007, 6, 322-329.	0.6	27
74	Soil types determine vegetation communities along a toposequence in a dolomite peak-cluster depression catchment. Plant and Soil, 0, , 1.	3.7	6