

Hong-song Chen

List of Publications by Year in descending order

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74
papers

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citations

147801

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all docs

79
docs citations

79
times ranked

2378
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased vegetation growth and carbon stock in China karst via ecological engineering. <i>Nature Sustainability</i> , 2018, 1, 44-50.	23.7	460
2	Soil desiccation in the Loess Plateau of China. <i>Geoderma</i> , 2008, 143, 91-100.	5.1	351
3	Karst landscapes of China: patterns, ecosystem processes and services. <i>Landscape Ecology</i> , 2019, 34, 2743-2763.	4.2	257
4	Changes in nitrogen and phosphorus limitation during secondary succession in a karst region in southwest China. <i>Plant and Soil</i> , 2015, 391, 77-91.	3.7	198
5	The characteristics of soil water cycle and water balance on steep grassland under natural and simulated rainfall conditions in the Loess Plateau of China. <i>Journal of Hydrology</i> , 2008, 360, 242-251.	5.4	173
6	Seasonal water use patterns of woody species growing on the continuous dolostone outcrops and nearby thin soils in subtropical China. <i>Plant and Soil</i> , 2011, 341, 399-412.	3.7	142
7	Water source utilization by woody plants growing on dolomite outcrops and nearby soils during dry seasons in karst region of Southwest China. <i>Journal of Hydrology</i> , 2012, 420-421, 264-274.	5.4	127
8	Spatial distribution of rock fragments on steep hillslopes in karst region of northwest Guangxi, China. <i>Catena</i> , 2011, 84, 21-28.	5.0	104
9	Soil erosion rates in two karst peak-cluster depression basins of northwest Guangxi, China: Comparison of the RUSLE model with 137Cs measurements. <i>Geomorphology</i> , 2016, 253, 217-224.	2.6	101
10	Water uptake depth is coordinated with leaf water potential, water-use efficiency and drought vulnerability in karst vegetation. <i>New Phytologist</i> , 2021, 229, 1339-1353.	7.3	93
11	Rapid recuperation of soil nitrogen following agricultural abandonment in a karst area, southwest China. <i>Biogeochemistry</i> , 2016, 129, 341-354.	3.5	87
12	Dynamics of soil organic carbon and nitrogen following agricultural abandonment in a karst region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 230-242.	3.0	85
13	Soil moisture dynamics under different land uses on karst hillslope in northwest Guangxi, China. <i>Environmental Earth Sciences</i> , 2010, 61, 1105-1111.	2.7	82
14	Role of epikarst in near-surface hydrological processes in a soil mantled subtropical dolomite karst slope: implications of field rainfall simulation experiments. <i>Hydrological Processes</i> , 2016, 30, 795-811.	2.6	82
15	Soil nutrients and stoichiometric ratios as affected by land use and lithology at county scale in a karst area, southwest China. <i>Science of the Total Environment</i> , 2018, 619-620, 1299-1307.	8.0	81
16	Generalized reference evapotranspiration models with limited climatic data based on random forest and gene expression programming in Guangxi, China. <i>Agricultural Water Management</i> , 2019, 221, 220-230.	5.6	79
17	Effects of monoculture and mixed culture of grass and legume forage species on soil microbial community structure under different levels of nitrogen fertilization. <i>European Journal of Soil Biology</i> , 2015, 68, 61-68.	3.2	75
18	Positive correlation between soil bacterial metabolic and plant species diversity and bacterial and fungal diversity in a vegetation succession on Karst. <i>Plant and Soil</i> , 2008, 307, 123-134.	3.7	74

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19	Soil organic carbon and total nitrogen as affected by land use types in karst and non-karst areas of northwest Guangxi, China. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1086-1093.	3.5	70
20	Rooting characteristics of two widely distributed woody plant species growing in different karst habitats of southwest China. <i>Plant Ecology</i> , 2014, 215, 1099-1109.	1.6	63
21	Dynamic variations in profile soil water on karst hillslopes in Southwest China. <i>Catena</i> , 2019, 172, 655-663.	5.0	57
22	Seasonal recharge and mean residence times of soil and epikarst water in a small karst catchment of southwest China. <i>Scientific Reports</i> , 2015, 5, 10215.	3.3	56
23	Vertical distribution of soil saturated hydraulic conductivity and its influencing factors in a small karst catchment in Southwest China. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 92.	2.7	51
24	Structure and water storage capacity of a small karst aquifer based on stream discharge in southwest China. <i>Journal of Hydrology</i> , 2016, 534, 50-62.	5.4	48
25	Mechanisms of surface and subsurface runoff generation in subtropical soil-epikarst systems: Implications of rainfall simulation experiments on karst slope. <i>Journal of Hydrology</i> , 2020, 580, 124370.	5.4	46
26	Soil hydraulic properties on the steep karst hillslopes in northwest Guangxi, China. <i>Environmental Earth Sciences</i> , 2012, 66, 371-379.	2.7	45
27	Spatial variability of surface soil saturated hydraulic conductivity in a small karst catchment of southwest China. <i>Environmental Earth Sciences</i> , 2015, 74, 2381-2391.	2.7	42
28	Analysis of soil water movement inside a footslope and a depression in a karst catchment, Southwest China. <i>Scientific Reports</i> , 2017, 7, 2544.	3.3	42
29	Ancillary information improves kriging on soil organic carbon data for a typical karst peak cluster depression landscape. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1094-1102.	3.5	41
30	Hydraulic properties of karst fractures filled with soils and regolith materials: Implication for their ecohydrological functions. <i>Geoderma</i> , 2016, 276, 93-101.	5.1	40
31	Tillage induces rapid loss of organic carbon in large macroaggregates of calcareous soils. <i>Soil and Tillage Research</i> , 2020, 199, 104549.	5.6	34
32	Modeling soil erosion using a spatially distributed model in a karst catchment of northwest Guangxi, China. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 2121-2130.	2.5	33
33	Seasonal variations in leaf $\delta^{13}C$ values: implications for different water-use strategies among species growing on continuous dolomite outcrops in subtropical China. <i>Acta Physiologiae Plantarum</i> , 2014, 36, 2571-2579.	2.1	32
34	Seasonal recharge of spring and stream waters in a karst catchment revealed by isotopic and hydrochemical analyses. <i>Journal of Hydrology</i> , 2020, 591, 125595.	5.4	32
35	Effects of vegetation restoration on soil properties along an elevation gradient in the karst region of southwest China. <i>Agriculture, Ecosystems and Environment</i> , 2021, 320, 107572.	5.3	32
36	Spatial Variability of Surface Soil Moisture in a Depression Area of Karst Region. <i>Clean - Soil, Air, Water</i> , 2011, 39, 619-625.	1.1	31

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37	Spatial variability of shallow soil moisture and its stable isotope values on a karst hillslope. <i>Geoderma</i> , 2016, 264, 61-70.	5.1	31
38	Using the radial basis function network model to assess rocky desertification in northwest Guangxi, China. <i>Environmental Earth Sciences</i> , 2011, 62, 69-76.	2.7	29
39	Soil carbon accumulation with increasing temperature under both managed and natural vegetation restoration in calcareous soils. <i>Science of the Total Environment</i> , 2021, 767, 145298.	8.0	29
40	A novel approach for estimating groundwater use by plants in rock-dominated habitats. <i>Journal of Hydrology</i> , 2018, 565, 760-769.	5.4	28
41	Assessment of underground soil loss via the tapering grikes on limestone hillslopes. <i>Agriculture, Ecosystems and Environment</i> , 2020, 297, 106935.	5.3	28
42	Rainfall-runoff characteristics and their threshold behaviors on a karst hillslope in a peak-cluster depression region. <i>Journal of Hydrology</i> , 2022, 605, 127370.	5.4	28
43	The Heterogeneity and Its Influencing Factors of Soil Nutrients in Peak-Cluster Depression Areas of Karst Region. <i>Agricultural Sciences in China</i> , 2007, 6, 322-329.	0.6	27
44	Influencing factors on soil nutrients at different scales in a karst area. <i>Catena</i> , 2019, 175, 411-420.	5.0	26
45	Modeling daily reference ET in the karst area of northwest Guangxi (China) using gene expression programming (GEP) and artificial neural network (ANN). <i>Theoretical and Applied Climatology</i> , 2016, 126, 493-504.	2.8	23
46	Surface soil water content and its controlling factors in a small karst catchment. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	22
47	Separating the relative contributions of climate change and ecological restoration to runoff change in a mesoscale karst basin. <i>Catena</i> , 2020, 194, 104705.	5.0	22
48	Soil thickness controls the rainfall-runoff relationship at the karst hillslope critical zone in southwest China. <i>Journal of Hydrology</i> , 2022, 609, 127779.	5.4	22
49	Qualitative identification of hydrologically different water sources used by plants in rock-dominated environments. <i>Journal of Hydrology</i> , 2019, 573, 386-394.	5.4	21
50	Effect of soil thickness on rainfall infiltration and runoff generation from karst hillslopes during rainstorms. <i>European Journal of Soil Science</i> , 2022, 73, .	3.9	21
51	Divergent root water uptake depth and coordinated hydraulic traits among typical karst plantations of subtropical China: Implication for plant water adaptation under precipitation changes. <i>Agricultural Water Management</i> , 2021, 249, 106798.	5.6	20
52	Preferential Flow in Different Soil Architectures of a Small Karst Catchment. <i>Vadose Zone Journal</i> , 2018, 17, 1-10.	2.2	19
53	Lithologic control of microbial-derived carbon in forest soils. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108600.	8.8	18
54	Exploring the relationship between vegetation spectra and eco-geo-environmental conditions in karst region, Southwest China. <i>Environmental Monitoring and Assessment</i> , 2010, 160, 157-168.	2.7	16

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55	Comparison of woody species composition between rocky outcrops and nearby matrix vegetation on degraded karst hillslopes of Southwest China. <i>Journal of Forestry Research</i> , 2019, 30, 911-920.	3.6	16
56	Hydrological response of karst stream to precipitation variation recognized through the quantitative separation of runoff components. <i>Science of the Total Environment</i> , 2020, 748, 142483.	8.0	15
57	Comparison of Rooting Strategies to Explore Rock Fractures for Shallow Soil-Adapted Tree Species with Contrasting Aboveground Growth Rates: A Greenhouse Microcosm Experiment. <i>Frontiers in Plant Science</i> , 2017, 8, 1651.	3.6	13
58	Temporal stability analysis of surface soil water content on two karst hillslopes in southwest China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 25267-25279.	5.3	12
59	What roles can water-stressed vegetation play in agricultural droughts?. <i>Science of the Total Environment</i> , 2022, 803, 149810.	8.0	11
60	Impacts of land use and land cover changes upon organic productivity values in Karst ecosystems: a case study of Northwest Guangxi, China. <i>Frontiers of Earth Science</i> , 2010, 4, 3-13.	0.5	9
61	Common Species Maintain a Large Root Radial Extent and a Stable Resource Use Status in Soil-Limited Environments: A Case Study in Subtropical China. <i>Frontiers in Plant Science</i> , 2020, 11, 1260.	3.6	8
62	Water source segregation along successional stages in a degraded karst region of subtropical China. <i>Journal of Vegetation Science</i> , 2018, 29, 933-942.	2.2	7
63	Dynamics of soil profile water content in peak-cluster depression areas in karst region. <i>Chinese Journal of Eco-Agriculture</i> , 2013, 21, 1225-1232.	0.1	7
64	Isotopic deviations of water extracted from carbonate soil by cryogenic vacuum extraction: implication for root water uptake analysis. <i>Plant and Soil</i> , 2022, 475, 79-89.	3.7	7
65	Soil organic carbon stock and its changes in a typical karst area from 1983 to 2015. <i>Journal of Soils and Sediments</i> , 2021, 21, 42-51.	3.0	6
66	Replenishment and mean residence time of root-zone water for woody plants growing on rocky outcrops in a subtropical karst critical zone. <i>Journal of Hydrology</i> , 2021, 603, 127136.	5.4	6
67	Soil types determine vegetation communities along a toposequence in a dolomite peak-cluster depression catchment. <i>Plant and Soil</i> , 0, , 1.	3.7	6
68	Evaluation of remote sensing-based evapotranspiration estimates using a water transfer numerical simulation under different vegetation conditions in an arid area. <i>Hydrological Processes</i> , 2018, 32, 1801-1813.	2.6	5
69	Anti-soil erodibility of different land use types in Northwest Guangxi Karst Regions. <i>Chinese Journal of Eco-Agriculture</i> , 2012, 20, 105-110.	0.1	5
70	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. <i>Water (Switzerland)</i> , 2022, 14, 1119.	2.7	5
71	Evaluation of the spatial pattern of surface soil water content of a karst hillslope in Southwest China using a state-space approach. <i>Archives of Agronomy and Soil Science</i> , 2017, 63, 1800-1813.	2.6	4
72	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

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73	Leaf $\delta^{13}C$ of plants in different vegetation succession stages on karst hillslope of Northwest Guangxi, China. <i>Chinese Journal of Eco-Agriculture</i> , 2010, 18, 1223-1227.	0.1	1
74	Effects of the implementation of ecological restoration policies on soil organic carbon storage in a discontinuous soil region. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2014, 64, 97-108.	0.6	0