Heng Dai

List of Publications by Year
in descending order

18 papers	447 citations	840776 11 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	490 citing authors

#	ARTICLE	IF	CITATIONS
1	Projection and uncertainty of precipitation extremes in the CMIP5 multimodel ensembles over nine major basins in China. Atmospheric Research, 2019, 226, 122-137.	4.1	73
2	Drought Conditions Maximize the Impact of High‐Frequency Flow Variations on Thermal Regimes and Biogeochemical Function in the Hyporheic Zone. Water Resources Research, 2018, 54, 7361-7382.	4.2	63
3	Characterizing microbial diversity and community composition of groundwater in a salt-freshwater transition zone. Science of the Total Environment, 2019, 678, 574-584.	8.0	60
4	Variance-based global sensitivity analysis for multiple scenarios and models with implementation using sparse grid collocation. Journal of Hydrology, 2015, 528, 286-300.	5.4	48
5	A new process sensitivity index to identify important system processes under process model and parametric uncertainty. Water Resources Research, 2017, 53, 3476-3490.	4.2	41
6	Simulation of regional groundwater levels in arid regions using interpretable machine learning models. Science of the Total Environment, 2022, 831, 154902.	8.0	35
7	A geostatistics‐informed hierarchical sensitivity analysis method for complex groundwater flow and transport modeling. Water Resources Research, 2017, 53, 4327-4343.	4.2	30
8	Using Bayesian Networks for Sensitivity Analysis of Complex Biogeochemical Models. Water Resources Research, 2019, 55, 3541-3555.	4.2	23
9	Comparison of the groundwater microbial community in a salt-freshwater mixing zone during the dry and wet seasons. Journal of Environmental Management, 2020, 271, 110969.	7.8	22
10	Global precipitation-related extremes at 1.5°C and 2°C of global warming targets: Projection and uncertainty assessment based on the CESM-LWR experiment. Atmospheric Research, 2021, 264, 105868.	4.1	15
11	Spatial distribution and source apportionment of polycyclic aromatic hydrocarbons in typical oasis soil of north-western China and the bacterial community response. Environmental Research, 2022, 204, 112401.	7.5	13
12	An efficient approximation of non-Fickian transport using a time-fractional transient storage model. Advances in Water Resources, 2020, 135, 103486.	3.8	8
13	Combining Isotope and Hydrogeochemistry Methods to Study the Seawater Intrusion: A Case Study in Longkou City, Shandong Province, China. Water (Switzerland), 2022, 14, 789.	2.7	5
14	Study on the Exploitation Scheme of Groundwater under Well-Canal Conjunctive Irrigation in Seasonally Freezing-Thawing Agricultural Areas. Water (Switzerland), 2021, 13, 1384.	2.7	4
15	Hierarchical sensitivity analysis for simulating barrier island geomorphologic responses to future storms and sea-level rise. Theoretical and Applied Climatology, 2019, 136, 1495-1511.	2.8	3
16	Process Interactions Can Change Process Ranking in a Coupled Complex System Under Process Model and Parametric Uncertainty. Water Resources Research, 2022, 58, .	4.2	3
17	Hierarchical sensitivity analysis for a large-scale process-based hydrological model applied to an Amazonian watershed. Hydrology and Earth System Sciences, 2020, 24, 4971-4996.	4.9	1
18	Distribution characteristics and factors influencing microbial communities in the core soils of a seawater intrusion area in Longkou City, China. Hydrogeology Journal, 0, , .	2.1	0