

Mukesh Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,296
citations

361413

20
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

2073
citing authors

#	ARTICLE	IF	CITATIONS
1	A Calibration-Free Groundwater Module for Improving Predictions of Low Flows. <i>Water Resources Research</i> , 2022, 58, .	4.2	2
2	Seasonality of inundation in geographically isolated wetlands across the United States. <i>Environmental Research Letters</i> , 2022, 17, 054005.	5.2	5
3	Retrieving gap-free daily root zone soil moisture using surface flux equilibrium theory. <i>Environmental Research Letters</i> , 2021, 16, 104007.	5.2	4
4	Spatial and temporal variations in the groundwater contributing areas of inland wetlands. <i>Hydrological Processes</i> , 2020, 34, 1117-1130.	2.6	6
5	Plant hydraulics accentuates the effect of atmospheric moisture stress on transpiration. <i>Nature Climate Change</i> , 2020, 10, 691-695.	18.8	108
6	Impact of gully incision on hillslope hydrology. <i>Hydrological Processes</i> , 2020, 34, 3848-3866.	2.6	4
7	How Surface Radiation on Forested Snowpack Changes across a Latitudinal Gradient. <i>Hydrology</i> , 2019, 6, 62.	3.0	5
8	Gradient-Based Inverse Estimation for a Rainfall-Runoff Model. <i>Water Resources Research</i> , 2019, 55, 6625-6639.	4.2	9
9	Intercomparing varied erosion, deposition and transport process representations for simulating sediment yield. <i>Scientific Reports</i> , 2019, 9, 12029.	3.3	8
10	Reduced resilience as an early warning signal of forest mortality. <i>Nature Climate Change</i> , 2019, 9, 880-885.	18.8	87
11	On the role of spatial resolution on snow estimates using a process-based snow model across a range of climatology and elevation. <i>Hydrological Processes</i> , 2019, 33, 1260-1275.	2.6	6
12	Mortality risk from heat stress expected to hit poorest nations the hardest. <i>Climatic Change</i> , 2019, 152, 569-579.	3.6	28
13	Using nested discretization for a detailed yet computationally efficient simulation of local hydrology in a distributed hydrologic model. <i>Scientific Reports</i> , 2018, 8, 5785.	3.3	12
14	Identifying Wetland Consolidation Using Remote Sensing in the North Dakota Prairie Pothole Region. <i>Water Resources Research</i> , 2018, 54, 7478-7494.	4.2	12
15	Role of temporal resolution of meteorological inputs for process-based snow modelling. <i>Hydrological Processes</i> , 2018, 32, 2976-2989.	2.6	4
16	Increasing atmospheric humidity and CO ₂ concentration alleviate forest mortality risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9918-9923.	7.1	66
17	Hurricanes and tropical storms: A necessary evil to ensure water supply?. <i>Hydrological Processes</i> , 2017, 31, 4414-4428.	2.6	9
18	Modeling the potential impacts of climate change on the water table level of selected forested wetlands in the southeastern United States. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6289-6305.	4.9	23

#	ARTICLE	IF	CITATIONS
19	Role of meteorological controls on interannual variations in wetâ€period characteristics of wetlands. <i>Water Resources Research</i> , 2016, 52, 5056-5074.	4.2	19
20	Potential trends in snowmeltâ€generated peak streamflows in a warming climate. <i>Geophysical Research Letters</i> , 2016, 43, 5052-5059.	4.0	24
21	Assessment of the Timing of Daily Peak Streamflow during the Melt Season in a Snow-Dominated Watershed. <i>Journal of Hydrometeorology</i> , 2016, 17, 2225-2244.	1.9	16
22	Simulating the spatio-temporal dynamics of soil erosion, deposition, and yield using a coupled sediment dynamics and 3D distributed hydrologic model. <i>Environmental Modelling and Software</i> , 2016, 83, 310-325.	4.5	22
23	Variations in Streamflow Response to Large Hurricane-Season Storms in a Southeastern U.S. Watershed. <i>Journal of Hydrometeorology</i> , 2015, 16, 55-69.	1.9	32
24	A tightly coupled GIS and distributed hydrologic modeling framework. <i>Environmental Modelling and Software</i> , 2014, 62, 70-84.	4.5	97
25	Net radiation in a snowâ€covered discontinuous forest gap for a range of gap sizes and topographic configurations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,323.	3.3	36
26	Surfaceâ€subsurface model intercomparison: A first set of benchmark results to diagnose integrated hydrology and feedbacks. <i>Water Resources Research</i> , 2014, 50, 1531-1549.	4.2	222
27	Anomalous trend in soil evaporation in a semi-arid, snow-dominated watershed. <i>Advances in Water Resources</i> , 2013, 57, 32-40.	3.8	28
28	Evaluation of distributed hydrologic impacts of temperature-index and energy-based snow models. <i>Advances in Water Resources</i> , 2013, 56, 77-89.	3.8	101
29	On the role of vegetation density on net snow cover radiation at the forest floor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8359-8374.	3.3	30
30	Effects of tree morphometry on net snow cover radiation on forest floor for varying vegetation densities. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,508.	3.3	10
31	Effects of more extreme precipitation regimes on maximum seasonal snow water equivalent. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	23
32	A longâ€term data set for hydrologic modeling in a snowâ€dominated mountain catchment. <i>Water Resources Research</i> , 2011, 47, .	4.2	66
33	Sensitivity of the snowcover energetics in a mountain basin to variations in climate. <i>Hydrological Processes</i> , 2011, 25, 3312-3321.	2.6	23
34	An object-oriented shared data model for GIS and distributed hydrologic models. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1061-1079.	4.8	27
35	A Secondâ€Order Accurate, Finite Volumeâ€Based, Integrated Hydrologic Modeling (FIHM) Framework for Simulation of Surface and Subsurface Flow. <i>Vadose Zone Journal</i> , 2009, 8, 873-890.	2.2	85
36	An efficient domain decomposition framework for accurate representation of geodata in distributed hydrologic models. <i>International Journal of Geographical Information Science</i> , 2009, 23, 1569-1596.	4.8	36