Mukesh Kumar

List of Publications by Year
in descending order

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36	1,296	361413 20	361022 35
papers	citations	h-index	g-index

37	37	37	2073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surfaceâ€subsurface model intercomparison: A first set of benchmark results to diagnose integrated hydrology and feedbacks. Water Resources Research, 2014, 50, 1531-1549.	4.2	222
2	Plant hydraulics accentuates the effect of atmospheric moisture stress on transpiration. Nature Climate Change, 2020, 10, 691-695.	18.8	108
3	Evaluation of distributed hydrologic impacts of temperature-index and energy-based snow models. Advances in Water Resources, 2013, 56, 77-89.	3.8	101
4	A tightly coupled GIS and distributed hydrologic modeling framework. Environmental Modelling and Software, 2014, 62, 70-84.	4.5	97
5	Reduced resilience as an early warning signal of forest mortality. Nature Climate Change, 2019, 9, 880-885.	18.8	87
6	A Secondâ€Order Accurate, Finite Volumeâ€“Based, Integrated Hydrologic Modeling (FIHM) Framework for Simulation of Surface and Subsurface Flow. Vadose Zone Journal, 2009, 8, 873-890.	2.2	85
7	A longâ€term data set for hydrologic modeling in a snowâ€dominated mountain catchment. Water Resources Research, 2011, 47, .	4.2	66
8	Increasing atmospheric humidity and CO ₂ concentration alleviate forest mortality risk. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9918-9923.	7.1	66
9	An efficient domain decomposition framework for accurate representation of geodata in distributed hydrologic models. International Journal of Geographical Information Science, 2009, 23, 1569-1596.	4.8	36
10	Net radiation in a snowâ€covered discontinuous forest gap for a range of gap sizes and topographic configurations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,323.	3.3	36
11	Variations in Streamflow Response to Large Hurricane-Season Storms in a Southeastern U.S. Watershed. Journal of Hydrometeorology, 2015, 16, 55-69.	1.9	32
12	On the role of vegetation density on net snow cover radiation at the forest floor. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8359-8374.	3.3	30
13	Anomalous trend in soil evaporation in a semi-arid, snow-dominated watershed. Advances in Water Resources, 2013, 57, 32-40.	3.8	28
14	Mortality risk from heat stress expected to hit poorest nations the hardest. Climatic Change, 2019, 152, 569-579.	3.6	28
15	An object-oriented shared data model for GIS and distributed hydrologic models. International Journal of Geographical Information Science, 2010, 24, 1061-1079.	4.8	27
16	Potential trends in snowmeltâ€generated peak streamflows in a warming climate. Geophysical Research Letters, 2016, 43, 5052-5059.	4.0	24
17	Sensitivity of the snowcover energetics in a mountain basin to variations in climate. Hydrological Processes, 2011, 25, 3312-3321.	2.6	23
18	Effects of more extreme precipitation regimes on maximum seasonal snow water equivalent. Geophysical Research Letters, 2012, 39, .	4.0	23

#	Article	IF	Citations
19	Modeling the potential impacts of climate change on the water table level of selected forested wetlands in the southeastern United States. Hydrology and Earth System Sciences, 2017, 21, 6289-6305.	4.9	23
20	Simulating the spatio-temporal dynamics of soil erosion, deposition, and yield using a coupled sediment dynamics and 3D distributed hydrologic model. Environmental Modelling and Software, 2016, 83, 310-325.	4.5	22
21	Role of meteorological controls on interannual variations in wetâ€period characteristics of wetlands. Water Resources Research, 2016, 52, 5056-5074.	4.2	19
22	Assessment of the Timing of Daily Peak Streamflow during the Melt Season in a Snow-Dominated Watershed. Journal of Hydrometeorology, 2016, 17, 2225-2244.	1.9	16
23	Using nested discretization for a detailed yet computationally efficient simulation of local hydrology in a distributed hydrologic model. Scientific Reports, 2018, 8, 5785.	3.3	12
24	Identifying Wetland Consolidation Using Remote Sensing in the North Dakota Prairie Pothole Region. Water Resources Research, 2018, 54, 7478-7494.	4.2	12
25	Effects of tree morphometry on net snow cover radiation on forest floor for varying vegetation densities. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,508.	3.3	10
26	Hurricanes and tropical storms: A necessary evil to ensure water supply?. Hydrological Processes, 2017, 31, 4414-4428.	2.6	9
27	Gradientâ€Based Inverse Estimation for a Rainfallâ€Runoff Model. Water Resources Research, 2019, 55, 6625-6639.	4.2	9
28	Intercomparing varied erosion, deposition and transport process representations for simulating sediment yield. Scientific Reports, 2019, 9, 12029.	3.3	8
29	On the role of spatial resolution on snow estimates using a processâ€based snow model across a range of climatology and elevation. Hydrological Processes, 2019, 33, 1260-1275.	2.6	6
30	Spatial and temporal variations in the groundwater contributing areas of inland wetlands. Hydrological Processes, 2020, 34, 1117-1130.	2.6	6
31	How Surface Radiation on Forested Snowpack Changes across a Latitudinal Gradient. Hydrology, 2019, 6, 62.	3.0	5
32	Seasonality of inundation in geographically isolated wetlands across the United States. Environmental Research Letters, 2022, 17, 054005.	5.2	5
33	Role of temporal resolution of meteorological inputs for processâ€based snow modelling. Hydrological Processes, 2018, 32, 2976-2989.	2.6	4
34	Impact of gully incision on hillslope hydrology. Hydrological Processes, 2020, 34, 3848-3866.	2.6	4
35	Retrieving gap-free daily root zone soil moisture using surface flux equilibrium theory. Environmental Research Letters, 2021, 16, 104007.	5.2	4
36	A Calibrationâ€Free Groundwater Module for Improving Predictions of Low Flows. Water Resources Research, 2022, 58, .	4.2	2