James Knighton

List of Publications by Year
in descending order

25	459	623188	713013
papers	citations	14 h-index	21 g-index

29	29	29	563
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using isotopes to incorporate tree water storage and mixing dynamics into a distributed ecohydrologic modelling framework. Ecohydrology, 2020, 13, e2201.	1.1	51
2	Ecohydrologic considerations for modeling of stable water isotopes in a small intermittent watershed. Hydrological Processes, 2017, 31, 2438-2452.	1.1	42
3	A Vulnerabilityâ€Based, Bottomâ€up Assessment of Future Riverine Flood Risk Using a Modified Peaksâ€Overâ€Threshold Approach and a Physically Based Hydrologic Model. Water Resources Research, 2017, 53, 10043-10064.	1.7	34
4	Contrasting adaptive strategies by Caragana korshinskii and Salix psammophila in a semiarid revegetated ecosystem. Agricultural and Forest Meteorology, 2021, 300, 108323.	1.9	34
5	Seasonal and Topographic Variations in Ecohydrological Separation Within a Small, Temperate, Snowâ€Influenced Catchment. Water Resources Research, 2019, 55, 6417-6435.	1.7	32
6	Stormwater Detention System Parameter Sensitivity and Uncertainty Analysis Using SWMM. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	27
7	Predicting flood insurance claims with hydrologic and socioeconomic demographics via machine learning: Exploring the roles of topography, minority populations, and political dissimilarity. Journal of Environmental Management, 2020, 272, 111051.	3.8	26
8	Understanding Catchmentâ€Scale Forest Root Water Uptake Strategies Across the Continental United States Through Inverse Ecohydrological Modeling. Geophysical Research Letters, 2020, 47, e2019GL085937.	1.5	24
9	Possible Increases in Flood Frequency Due to the Loss of Eastern Hemlock in the Northeastern United States: Observational Insights and Predicted Impacts. Water Resources Research, 2019, 55, 5342-5359.	1.7	23
10	A proposed probabilistic seismic tsunami hazard analysis methodology. Natural Hazards, 2015, 78, 699-723.	1.6	20
11	Development of probability distributions for urban hydrologic model parameters and a Monte Carlo analysis of model sensitivity. Hydrological Processes, 2014, 28, 5131-5139.	1.1	19
12	Parameter sensitivity and uncertainty analysis for a storm surge and wave model. Natural Hazards and Earth System Sciences, 2016, 16, 2195-2210.	1.5	19
13	Flood risk behaviors of United States riverine metropolitan areas are driven by local hydrology and shaped by race. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
14	Potential Predictability of Regional Precipitation and Discharge Extremes Using Synoptic-Scale Climate Information via Machine Learning: An Evaluation for the Eastern Continental United States. Journal of Hydrometeorology, 2019, 20, 883-900.	0.7	17
15	Estimating dominant runoff modes across the conterminous United States. Hydrological Processes, 2018, 32, 3881-3890.	1.1	16
16	Phylogenetic Underpinning of Groundwater Use by Trees. Geophysical Research Letters, 2021, 48, e2021GL093858.	1.5	12
17	Alignment of tree phenology and climate seasonality influences the runoff response to forest cover loss. Environmental Research Letters, 2020, 15, 104051.	2.2	11
18	Invertebrate response to impacts of water diversion and flow regulation in highâ€altitude tropical streams. River Research and Applications, 2020, 36, 223-233.	0.7	10

#	Article	IF	Citations
19	Topographic wetness guided dairy manure applications to reduce stream nutrient loads in Central New York, USA. Journal of Hydrology: Regional Studies, 2017, 14, 67-82.	1.0	9
20	Random walk modeling of adult Leuctra ferruginea (stonefly) dispersal. Ecological Informatics, 2014, 19, 1-9.	2.3	7
21	Challenges to implementing bottom-up flood risk decision analysis frameworks: how strong are social networks of flooding professionals?. Hydrology and Earth System Sciences, 2018, 22, 5657-5673.	1.9	6
22	Simulation and statistical modelling approaches to investigate hydrologic regime transformations following Eastern hemlock decline. Hydrological Processes, 2020, 34, 1198-1212.	1.1	2
23	Application of Groundwater Modeling Tools to Evaluate Potential Impacts from Stormwater Infiltration in Philadelphia. Proceedings of the Water Environment Federation, 2012, 2012, 3041-3054.	0.0	0
24	Estimating the Effects of DEM Uncertainty through Two-Dimensional Spatial Stochastic Watershed Simulation. , 2015, , .		0
25	Hammond Hill Research Catchment: Supporting hydrologic investigations of rooting zone and vegetation water dynamics under climate change. Hydrological Processes, 2020, 34, 4755-4758.	1.1	0