

Lauren E Hay

List of Publications by Year in descending order

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36
papers

2,108
citations

471371

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345118

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66
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docs citations

66
times ranked

2689
citing authors

#	ARTICLE	IF	CITATIONS
1	A COMPARISON OF DELTA CHANGE AND DOWNSCALED GCM SCENARIOS FOR THREE MOUNTAINOUS BASINS IN THE UNITED STATES ¹ . Journal of the American Water Resources Association, 2000, 36, 387-397.	1.0	547
2	A comparison of downscaled and raw GCM output: implications for climate change scenarios in the San Juan River basin, Colorado. Journal of Hydrology, 1999, 225, 67-91.	2.3	326
3	Accelerating advances in continental domain hydrologic modeling. Water Resources Research, 2015, 51, 10078-10091.	1.7	102
4	STEP WISE, MULTIPLE OBJECTIVE CALIBRATION OF A HYDROLOGIC MODEL FOR A SNOWMELT DOMINATED BASIN. Journal of the American Water Resources Association, 2006, 42, 877-890.	1.0	101
5	Watershed-Scale Response to Climate Change through the Twenty-First Century for Selected Basins across the United States. Earth Interactions, 2011, 15, 1-37.	0.7	75
6	A comparison of hydrologic models for ecological flows and water availability. Ecohydrology, 2015, 8, 1525-1546.	1.1	62
7	Towards simplification of hydrologic modeling: identification of dominant processes. Hydrology and Earth System Sciences, 2016, 20, 4655-4671.	1.9	52
8	SPATIAL VARIABILITY IN WATER-BALANCE MODEL PERFORMANCE IN THE CONTERMINOUS UNITED STATES. Journal of the American Water Resources Association, 2002, 38, 847-860.	1.0	45
9	Hydrologic Effects of Urbanization and Climate Change on the Flint River Basin, Georgia. Earth Interactions, 2011, 15, 1-25.	0.7	41
10	Parameter regionalization of a monthly water balance model for the conterminous United States. Hydrology and Earth System Sciences, 2016, 20, 2861-2876.	1.9	41
11	Hydrologic effects of climate change in the Yukon River Basin. Climatic Change, 2010, 100, 509-523.	1.7	38
12	Impacts of Climate Change on the Growing Season in the United States. Earth Interactions, 2011, 15, 1-17.	0.7	38
13	The U. S. Geological Survey National Hydrologic Model infrastructure: Rationale, description, and application of a watershed-scale model for the conterminous United States. Environmental Modelling and Software, 2019, 111, 192-203.	1.9	37
14	Effects of Climate and Land Cover on Hydrology in the Southeastern U.S.: Potential Impacts on Watershed Planning. Journal of the American Water Resources Association, 2015, 51, 1235-1261.	1.0	34
15	Inter-annual and spatial variability of Hamon potential evapotranspiration model coefficients. Journal of Hydrology, 2015, 521, 389-394.	2.3	26
16	Quantifying uncertainty in simulated streamflow and runoff from a continental-scale monthly water balance model. Advances in Water Resources, 2018, 122, 166-175.	1.7	22
17	Assessing the Impact of Drought on Arsenic Exposure from Private Domestic Wells in the Conterminous United States. Environmental Science & Technology, 2021, 55, 1822-1831.	4.6	20
18	Modelling surface water depression storage in a Prairie Pothole Region. Hydrological Processes, 2018, 32, 462-479.	1.1	18

#	ARTICLE	IF	CITATIONS
19	Reducing Streamflow Forecast Uncertainty: Application and Qualitative Assessment of the Upper Klamath River Basin, Oregon. Journal of the American Water Resources Association, 2009, 45, 580-596.	1.0	17
20	The Effects of Changing Land Cover on Streamflow Simulation in Puerto Rico. Journal of the American Water Resources Association, 2014, 50, 1575-1593.	1.0	16
21	Simulating the Potential Effects of Climate Change in Two Colorado Basins and at Two Colorado Ski Areas. Earth Interactions, 2011, 15, 1-23.	0.7	15
22	VERIFICATION OF THE RHEA-OROGRAPHIC-PRECIPITATION MODEL. Journal of the American Water Resources Association, 1998, 34, 103-112.	1.0	14
23	Characterizing Climate-Change Impacts on the 1.5-yr Flood Flow in Selected Basins across the United States: A Probabilistic Approach. Earth Interactions, 2011, 15, 1-16.	0.7	14
24	Disentangling the potential effects of land use and climate change on stream conditions. Global Change Biology, 2020, 26, 2251-2269.	4.2	14
25	Evaluation of Statistically Downscaled GCM Output as Input for Hydrological and Stream Temperature Simulation in the Apalachicola-Chattahoochee-Flint River Basin (1961-1999). Earth Interactions, 2014, 18, 1-32.	0.7	13
26	Hydrologic Regime Changes in a High-Latitude Glacierized Watershed under Future Climate Conditions. Water (Switzerland), 2018, 10, 128.	1.2	13
27	Effects of Baseline Conditions on the Simulated Hydrologic Response to Projected Climate Change. Earth Interactions, 2011, 15, 1-23.	0.7	10
28	Projected warming disrupts the synchrony of riparian seed release and snowmelt streamflow. New Phytologist, 2020, 225, 693-712.	3.5	8
29	Enhancement of a Parsimonious Water Balance Model to Simulate Surface Hydrology in a Glacierized Watershed. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1116-1132.	1.0	7
30	Gravity Recovery and Climate Experiment (GRACE) Storage Change Characteristics (2003-2016) over Major Surface Basins and Principal Aquifers in the Conterminous United States. Remote Sensing, 2019, 11, 936.	1.8	7
31	Do Downscaled General Circulation Models Reliably Simulate Historical Climatic Conditions?. Earth Interactions, 2018, 22, 1-22.	0.7	6
32	Runoff sensitivity to snow depletion curve representation within a continental scale hydrologic model. Hydrological Processes, 2020, 34, 2365.	1.1	6
33	Spatiotemporal Variability of Snow Depletion Curves Derived from SNODAS for the Conterminous United States, 2004-2013. Journal of the American Water Resources Association, 2017, 53, 655-666.	1.0	5
34	Calibration of the US Geological Survey National Hydrologic Model in Ungauged Basins Using Statistical At-Site Streamflow Simulations. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	5
35	Baseline Conditions and Projected Future Hydro-Climatic Change in National Parks in the Conterminous United States. Water (Switzerland), 2020, 12, 1704.	1.2	2
36	Spatiotemporal Variability of Modeled Watershed Scale Surface Depression Storage and Runoff for the Conterminous United States. Journal of the American Water Resources Association, 2020, 56, 16-29.	1.0	2