

# Ben Livneh

## List of Publications by Year in descending order

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74  
papers

5,812  
citations

101496

36  
h-index

88593

70  
g-index

86  
all docs

86  
docs citations

86  
times ranked

6547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continental-scale water and energy flux analysis and validation for the North American Land Data Assimilation System project phase 2 (NLDAS-2): 1. Intercomparison and application of model products. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	530
2	Large contribution from anthropogenic warming to an emerging North American megadrought. <i>Science</i> , 2020, 368, 314-318.	6.0	527
3	A Long-Term Hydrologically Based Dataset of Land Surface Fluxes and States for the Conterminous United States: Update and Extensions. <i>Journal of Climate</i> , 2013, 26, 9384-9392.	1.2	499
4	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	1.7	281
5	A spatially comprehensive, hydrometeorological data set for Mexico, the U.S., and Southern Canada 1950-2013. <i>Scientific Data</i> , 2015, 2, 150042.	2.4	277
6	Skill in streamflow forecasts derived from large-scale estimates of soil moisture and snow. <i>Nature Geoscience</i> , 2010, 3, 613-616.	5.4	231
7	Continental-scale water and energy flux analysis and validation for North American Land Data Assimilation System project phase 2 (NLDAS-2): 2. Validation of model-simulated streamflow. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	229
8	Spatial variation of the rain-snow temperature threshold across the Northern Hemisphere. <i>Nature Communications</i> , 2018, 9, 1148.	5.8	210
9	Snowmelt rate dictates streamflow. <i>Geophysical Research Letters</i> , 2016, 43, 8006-8016.	1.5	206
10	An assessment of differences in gridded precipitation datasets in complex terrain. <i>Journal of Hydrology</i> , 2018, 556, 1205-1219.	2.3	201
11	Assimilation of Remotely Sensed Soil Moisture and Snow Depth Retrievals for Drought Estimation. <i>Journal of Hydrometeorology</i> , 2014, 15, 2446-2469.	0.7	167
12	Global evaluation of MTCLIM and related algorithms for forcing of ecological and hydrological models. <i>Agricultural and Forest Meteorology</i> , 2013, 176, 38-49.	1.9	163
13	Axial testing and numerical modeling of square shaft helical piles under compressive and tensile loading. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1142-1155.	1.4	152
14	Noah LSM Snow Model Diagnostics and Enhancements. <i>Journal of Hydrometeorology</i> , 2010, 11, 721-738.	0.7	137
15	Noah land surface model modifications to improve snowpack prediction in the Colorado Rocky Mountains. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	122
16	Soil Moisture, Snow, and Seasonal Streamflow Forecasts in the United States. <i>Journal of Hydrometeorology</i> , 2012, 13, 189-203.	0.7	113
17	Reservoir Evaporation in the Western United States: Current Science, Challenges, and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 167-187.	1.7	107
18	Modeling seasonal snowpack evolution in the complex terrain and forested Colorado Headwaters region: A model intercomparison study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,795.	1.2	95

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19	How Has Human-Induced Climate Change Affected California Drought Risk?. <i>Journal of Climate</i> , 2016, 29, 111-120.	1.2	84
20	Drought less predictable under declining future snowpack. <i>Nature Climate Change</i> , 2020, 10, 452-458.	8.1	84
21	High-Elevation Precipitation Patterns: Using Snow Measurements to Assess Daily Gridded Datasets across the Sierra Nevada, California*. <i>Journal of Hydrometeorology</i> , 2015, 16, 1773-1792.	0.7	83
22	Toward computationally efficient large-scale hydrologic predictions with a multiscale regionalization scheme. <i>Water Resources Research</i> , 2013, 49, 5700-5714.	1.7	81
23	The Physics of Drought in the U.S. Central Great Plains. <i>Journal of Climate</i> , 2016, 29, 6783-6804.	1.2	78
24	The 2015 drought in Washington State: a harbinger of things to come?. <i>Environmental Research Letters</i> , 2017, 12, 114008.	2.2	60
25	Assessing the Impacts of Global Warming on Snowpack in the Washington Cascades*. <i>Journal of Climate</i> , 2009, 22, 2758-2772.	1.2	60
26	Implications of the Methodological Choices for Hydrologic Portrayals of Climate Change over the Contiguous United States: Statistically Downscaled Forcing Data and Hydrologic Models. <i>Journal of Hydrometeorology</i> , 2016, 17, 73-98.	0.7	59
27	Catchment response to bark beetle outbreak and dust-on-snow in the Colorado Rocky Mountains. <i>Journal of Hydrology</i> , 2015, 523, 196-210.	2.3	58
28	How Does Availability of Meteorological Forcing Data Impact Physically Based Snowpack Simulations?*. <i>Journal of Hydrometeorology</i> , 2016, 17, 99-120.	0.7	56
29	Validation of Noah-Simulated Soil Temperature in the North American Land Data Assimilation System Phase 2. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 455-471.	0.6	49
30	Influence of soil textural properties on hydrologic fluxes in the Mississippi river basin. <i>Hydrological Processes</i> , 2015, 29, 4638-4655.	1.1	48
31	Growing impact of wildfire on western US water supply. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	46
32	Controls on surface soil drying rates observed by SMAP and simulated by the Noah land surface model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1649-1663.	1.9	45
33	Representation of Terrestrial Hydrology and Large-Scale Drought of the Continental United States from the North American Regional Reanalysis. <i>Journal of Hydrometeorology</i> , 2012, 13, 856-876.	0.7	42
34	Filling in the gaps: Inferring spatially distributed precipitation from gauge observations over complex terrain. <i>Water Resources Research</i> , 2014, 50, 8589-8610.	1.7	40
35	Causes for the Century-Long Decline in Colorado River Flow. <i>Journal of Climate</i> , 2019, 32, 8181-8203.	1.2	40
36	Soil Moisture Data Assimilation to Estimate Irrigation Water Use. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3670-3690.	1.3	40

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37	Overcoming early career barriers to interdisciplinary climate change research. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2018, 9, e530.	3.6	35
38	Remotely sensed ensembles of the terrestrial water budget over major global river basins: An assessment of three closure techniques. <i>Remote Sensing of Environment</i> , 2021, 252, 112191.	4.6	35
39	Development of a Unified Land Model for Prediction of Surface Hydrology and Land–Atmosphere Interactions. <i>Journal of Hydrometeorology</i> , 2011, 12, 1299-1320.	0.7	33
40	Multi-criteria parameter estimation for the Unified Land Model. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3029-3048.	1.9	30
41	Impacts of increasing aridity and wildfires on aerosol loading in the intermountain Western US. <i>Environmental Research Letters</i> , 2017, 12, 014006.	2.2	28
42	Emerging investigators series: a critical review of decision support systems for water treatment: making the case for incorporating climate change and climate extremes. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 18-36.	1.2	24
43	Key landscape and biotic indicators of watersheds sensitivity to forest disturbance identified using remote sensing and historical hydrography data. <i>Environmental Research Letters</i> , 2017, 12, 074028.	2.2	23
44	Assessing the Contributions of East African and West Pacific Warming to the 2014 Boreal Spring East African Drought. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, S77-S82.	1.7	22
45	Regional parameter estimation for the unified land model. <i>Water Resources Research</i> , 2013, 49, 100-114.	1.7	19
46	Exploring snow model parameter sensitivity using Sobol' variance decomposition. <i>Environmental Modelling and Software</i> , 2017, 89, 144-158.	1.9	19
47	Development of a gridded meteorological dataset over Java island, Indonesia 1985–2014. <i>Scientific Data</i> , 2017, 4, 170072.	2.4	19
48	Hydrological model application under data scarcity for multiple watersheds, Java Island, Indonesia. <i>Journal of Hydrology: Regional Studies</i> , 2017, 9, 127-139.	1.0	19
49	Potential Reemergence of Seasonal Soil Moisture Anomalies in North America. <i>Journal of Climate</i> , 2019, 32, 2707-2734.	1.2	19
50	Projected Changes of Precipitation Characteristics Depend on Downscaling Method and Training Data: MACA versus LOCA Using the U.S. Northeast as an Example. <i>Journal of Hydrometeorology</i> , 2020, 21, 2739-2758.	0.7	19
51	Projections of Mountain Snowpack Loss for Wolverine Denning Elevations in the Rocky Mountains. <i>Earth's Future</i> , 2020, 8, e2020EF001537.	2.4	17
52	Decomposing supply-side and demand-side impacts of climate change on the US electricity system through 2050. <i>Climatic Change</i> , 2020, 158, 125-139.	1.7	16
53	Potential Effects of Forest Disturbances and Management on Water Resources in a Warmer Climate. <i>Forest Science</i> , 2015, 61, 895-903.	0.5	13
54	PEMIP: Post-fire erosion model inter-comparison project. <i>Journal of Environmental Management</i> , 2020, 268, 110704.	3.8	11

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55	Quantitative model-data comparison of mid-Holocene lake-level change in the central Rocky Mountains. <i>Climate Dynamics</i> , 2019, 53, 1077-1094.	1.7	10
56	Estimating Soil Evaporation Using Drying Rates Determined from Satellite-Based Soil Moisture Records. <i>Remote Sensing</i> , 2018, 10, 1945.	1.8	9
57	The GLACE-Hydrology Experiment: Effects of Land-Atmosphere Coupling on Soil Moisture Variability and Predictability. <i>Journal of Climate</i> , 2020, 33, 6511-6529.	1.2	9
58	How Can We Better Understand Low River Flows as Climate Changes?. <i>Eos</i> , 2015, 96, .	0.1	8
59	The sensitivity of runoff generation to spatial snowpack uniformity in an alpine watershed: Green Lakes Valley, Niwot Ridge Long-term Ecological Research station. <i>Hydrological Processes</i> , 2021, 35, e14331.	1.1	7
60	Modeling streamflow sensitivity to climate warming and surface water inputs in a montane catchment. <i>Journal of Hydrology: Regional Studies</i> , 2022, 39, 100976.	1.0	7
61	Record Low North American Monsoon Rainfall in 2020 Reignites Drought over the American Southwest. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, S26-S32.	1.7	6
62	A Multialgorithm Approach to Land Surface Modeling of Suspended Sediment in the Colorado Front Range. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2526-2544.	1.3	5
63	A continental-scale soil evaporation dataset derived from Soil Moisture Active Passive satellite drying rates. <i>Scientific Data</i> , 2020, 7, 406.	2.4	5
64	Understanding the 2011 Upper Missouri River Basin floods in the context of a changing climate. <i>Journal of Hydrology: Regional Studies</i> , 2018, 19, 110-123.	1.0	4
65	Investigating the Relationship Between Peak Snow-Water Equivalent and Snow Timing Indices in the Western United States and Alaska. <i>Water Resources Research</i> , 2021, 57, e2020WR029395.	1.7	4
66	A multi-sensor evaluation of precipitation uncertainty for landslide-triggering storm events. <i>Hydrological Processes</i> , 2021, 35, e14260.	1.1	3
67	Catchment-scale observations at the Niwot Ridge long-term ecological research site. <i>Hydrological Processes</i> , 2021, 35, e14320.	1.1	3
68	New Interest in Reservoir Evaporation in Western United States. <i>Eos</i> , 2016, 97, .	0.1	2
69	Emerging Ideas and Interdisciplinary Perspectives on Climate Change. <i>Eos</i> , 2014, 95, 65-65.	0.1	1
70	The Use of Ensemble Modeling of Suspended Sediment to Characterize Uncertainty. , 2017, , .		1
71	On the Role of Spatial Snow Distribution on Alpine Catchment Hydrology. , 2019, , .		1
72	Assessing the Robustness of Snow-Based Drought Indicators in the Upper Colorado River Basin under Future Climate Change. , 2017, , .		0

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73	Evaluating the Potential to Regionalize Station-Observed SWE across the Western U.S. , 2019, , .		0
74	Assessing the Contributions of East African and West Pacific Warming to the 2014 Boreal Spring East African Drought. Bulletin of the American Meteorological Society, 2015, 96, S77-S82.	1.7	0