

Alan F Hamlet

List of Publications by Year in descending order

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46
papers

5,776
citations

172457

29
h-index

233421

45
g-index

46
all docs

46
docs citations

46
times ranked

5950
citing authors

#	ARTICLE	IF	CITATIONS
1	DECLINING MOUNTAIN SNOWPACK IN WESTERN NORTH AMERICA*. Bulletin of the American Meteorological Society, 2005, 86, 39-50.	3.3	1,192
2	Hydrologic Sensitivity of Global Rivers to Climate Change. Climatic Change, 2001, 50, 143-175.	3.6	529
3	Effects of Temperature and Precipitation Variability on Snowpack Trends in the Western United States*. Journal of Climate, 2005, 18, 4545-4561.	3.2	458
4	Twentieth-Century Drought in the Conterminous United States. Journal of Hydrometeorology, 2005, 6, 985-1001.	1.9	457
5	Implications of global climate change for snowmelt hydrology in the twenty-first century. Hydrological Processes, 2009, 23, 962-972.	2.6	382
6	Implications of 21st century climate change for the hydrology of Washington State. Climatic Change, 2010, 102, 225-260.	3.6	379
7	Effects of 20th century warming and climate variability on flood risk in the western U.S.. Water Resources Research, 2007, 43, .	4.2	294
8	Production of Temporally Consistent Gridded Precipitation and Temperature Fields for the Continental United States*. Journal of Hydrometeorology, 2005, 6, 330-336.	1.9	222
9	Green and cool roofs to mitigate urban heat island effects in the Chicago metropolitan area: evaluation with a regional climate model. Environmental Research Letters, 2016, 11, 064004.	5.2	180
10	An Overview of the Columbia Basin Climate Change Scenarios Project: Approach, Methods, and Summary of Key Results. Atmosphere - Ocean, 2013, 51, 392-415.	1.6	124
11	Impacts of 21st-Century Climate Change on Hydrologic Extremes in the Pacific Northwest Region of North America. Journal of the American Water Resources Association, 2014, 50, 1461-1476.	2.4	124
12	Effects of projected climate change on energy supply and demand in the Pacific Northwest and Washington State. Climatic Change, 2010, 102, 103-128.	3.6	121
13	Predicting differential effects of climate change at the population level with life-cycle models of spring Chinook salmon. Global Change Biology, 2008, 14, 236-249.	9.5	108
14	Climate change impacts on water management and irrigated agriculture in the Yakima River Basin, Washington, USA. Climatic Change, 2010, 102, 287-317.	3.6	104
15	Urban meteorological modeling using <sc>WRF</sc>: a sensitivity study. International Journal of Climatology, 2017, 37, 1885-1900.	3.5	97
16	Effects of 21st century climate change on seasonal flow regimes and hydrologic extremes over the Midwest and Great Lakes region of the US. Science of the Total Environment, 2019, 650, 1261-1277.	8.0	91
17	Projected changes in future climate over the Midwest and Great Lakes region using downscaled CMIP5 ensembles. International Journal of Climatology, 2018, 38, e531.	3.5	86
18	Estimates of Twenty-First-Century Flood Risk in the Pacific Northwest Based on Regional Climate Model Simulations. Journal of Hydrometeorology, 2014, 15, 1881-1899.	1.9	79

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19	Optimized Flood Control in the Columbia River Basin for a Global Warming Scenario. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 440-450.	2.6	62
20	Assessing water resources adaptive capacity to climate change impacts in the Pacific Northwest Region of North America. Hydrology and Earth System Sciences, 2011, 15, 1427-1443.	4.9	61
21	Use of Satellite Data for Streamflow and Reservoir Storage Forecasts in the Snake River Basin. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 97-110.	2.6	55
22	Climate change impacts on water management in the Puget Sound region, Washington State, USA. Climatic Change, 2010, 102, 261-286.	3.6	54
23	Projecting the Hydrologic Impacts of Climate Change on Montane Wetlands. PLoS ONE, 2015, 10, e0136385.	2.5	49
24	The Role of Climate Forecasts in Western U.S. Power Planning. Journal of Applied Meteorology and Climatology, 2006, 45, 653-673.	1.5	41
25	Simulating the thermal behavior in Lake Ontario using EFDC. Journal of Great Lakes Research, 2016, 42, 511-523.	1.9	39
26	Role of green roofs in reducing heat stress in vulnerable urban communities—a multidisciplinary approach. Environmental Research Letters, 2018, 13, 094011.	5.2	39
27	The Need for an Integrated Land-Lake-Atmosphere Modeling System, Exemplified by North America's Great Lakes Region. Earth's Future, 2018, 6, 1366-1379.	6.3	34
28	Adapting transportation to climate change on federal lands in Washington State, U.S.A.. Climatic Change, 2015, 130, 185-199.	3.6	32
29	Impacts of climate change on the state of Indiana: ensemble future projections based on statistical downscaling. Climatic Change, 2020, 163, 1881-1895.	3.6	32
30	Impacts of Climate Change on Regulated Streamflow, Hydrologic Extremes, Hydropower Production, and Sediment Discharge in the Skagit River Basin. Northwest Science, 2016, 90, 23-43.	0.2	30
31	BioEarth: Envisioning and developing a new regional earth system model to inform natural and agricultural resource management. Climatic Change, 2015, 129, 555-571.	3.6	29
32	Impacts of Near-Term Climate Change on Irrigation Demands and Crop Yields in the Columbia River Basin. Water Resources Research, 2018, 54, 2152-2182.	4.2	29
33	Preparing for climate change in Washington State. Climatic Change, 2010, 102, 351-376.	3.6	23
34	Assessing potential winter weather response to climate change and implications for tourism in the U.S. Great Lakes and Midwest. Journal of Hydrology: Regional Studies, 2018, 19, 42-56.	2.4	22
35	Paleoreconstruction of cool season precipitation and warm season streamflow in the Pacific Northwest with applications to climate change assessments. Water Resources Research, 2012, 48, .	4.2	21
36	Spatial-temporal variations of evapotranspiration and runoff/precipitation ratios responding to the changing climate in the Pacific Northwest during 1921-2006. Journal of Geophysical Research D: Atmospheres, 2013, 118, 380-394.	3.3	19

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37	Reconstructions of Columbia River Streamflow from Tree-Ring Chronologies in the Pacific Northwest, USA. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1121-1141.	2.4	17
38	Cross-Scale Interactions Dictate Regional Lake Carbon Flux and Productivity Response to Future Climate. <i>Geophysical Research Letters</i> , 2019, 46, 8840-8851.	4.0	13
39	New Observed Data Sets for the Validation of Hydrology and Land Surface Models in Cold Climates. <i>Water Resources Research</i> , 2018, 54, 5190-5197.	4.2	10
40	Integrated, Regional-Scale Hydrologic Modeling of Inland Lakes. <i>Journal of the American Water Resources Association</i> , 2018, 54, 1302-1324.	2.4	9
41	Climate change impacts and strategies for adaptation for water resource management in Indiana. <i>Climatic Change</i> , 2021, 165, 1.	3.6	9
42	Assessing the impact of climate variability and change on regional water resources: The implications for stakeholders. <i>Water Resources Monograph</i> , 2003, , 341-368.	1.0	7
43	Methodology for Developing Flood Rule Curves Conditioned on El Niño-Southern Oscillation Classification1. <i>Journal of the American Water Resources Association</i> , 2011, 47, 81-92.	2.4	5
44	Lessons from Inter-Comparison of Decadal Climate Simulations and Observations for the Midwest U.S. and Great Lakes Region. <i>Atmosphere</i> , 2019, 10, 266.	2.3	4
45	Projected changes of regional lake hydrologic characteristics in response to 21st century climate change. <i>Inland Waters</i> , 2021, 11, 335-350.	2.2	4
46	Intercomparison of Dynamically and Statistically Downscaled Climate Change Projections over the Midwest and Great Lakes Region. <i>Journal of Hydrometeorology</i> , 2022, , .	1.9	0