

Michael D Dettinger

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

8,070
citations

35
h-index

68
g-index

68
ext. papers

8,864
ext. citations

4.6
avg, IF

6.08
L-index

#	Paper	IF	Citations
58	ADVANCED SPECTRAL METHODS FOR CLIMATIC TIME SERIES. <i>Reviews of Geophysics</i> , 2002 , 40, 3-1	23.1	1401
57	Changes toward Earlier Streamflow Timing across Western North America. <i>Journal of Climate</i> , 2005 , 18, 1136-1155	4.4	919
56	Atmospheric Rivers, Floods and the Water Resources of California. <i>Water (Switzerland)</i> , 2011 , 3, 445-4783		541
55	Flooding on California's Russian River: Role of atmospheric rivers. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	463
54	Meteorological Characteristics and Overland Precipitation Impacts of Atmospheric Rivers Affecting the West Coast of North America Based on Eight Years of SSM/I Satellite Observations. <i>Journal of Hydrometeorology</i> , 2008 , 9, 22-47	3.7	451
53	Climate change scenarios for the California region. <i>Climatic Change</i> , 2008 , 87, 21-42	4.5	422
52	Climate and Wildfire in the Western United States. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 595-604	6.1	337
51	Decadal variations in the strength of ENSO teleconnections with precipitation in the western United States. <i>International Journal of Climatology</i> , 1999 , 19, 1399-1410	3.5	315
50	North-South Precipitation Patterns in Western North America on Interannual-to-Decadal Timescales. <i>Journal of Climate</i> , 1998 , 11, 3095-3111	4.4	314
49	Simulated Hydrologic Responses to Climate Variations and Change in the Merced, Carson, and American River Basins, Sierra Nevada, California, 1900-2099. <i>Climatic Change</i> , 2004 , 62, 283-317	4.5	261
48	Atmospheric Rivers as Drought Busters on the U.S. West Coast. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1721-1732	3.7	218
47	Observed Impacts of Duration and Seasonality of Atmospheric-River Landfalls on Soil Moisture and Runoff in Coastal Northern California. <i>Journal of Hydrometeorology</i> , 2013 , 14, 443-459	3.7	185
46	The key role of dry days in changing regional climate and precipitation regimes. <i>Scientific Reports</i> , 2014 , 4, 4364	4.9	178
45	Precipitation in a warming world: Assessing projected hydro-climate changes in California and other Mediterranean climate regions. <i>Scientific Reports</i> , 2017 , 7, 10783	4.9	167
44	Strong influence of El Niño Southern Oscillation on flood risk around the world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15659-64	11.5	164
43	Diagnosis of an Intense Atmospheric River Impacting the Pacific Northwest: Storm Summary and Offshore Vertical Structure Observed with COSMIC Satellite Retrievals. <i>Monthly Weather Review</i> , 2008 , 136, 4398-4420	2.4	163
42	Historical and National Perspectives on Extreme West Coast Precipitation Associated with Atmospheric Rivers during December 2010. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 783-790	6.1	156

41	Assessing reservoir operations risk under climate change. <i>Water Resources Research</i> , 2009 , 45,	5.4	125
40	The Landfall and Inland Penetration of a Flood-Producing Atmospheric River in Arizona. Part I: Observed Synoptic-Scale, Orographic, and Hydrometeorological Characteristics. <i>Journal of Hydrometeorology</i> , 2013 , 14, 460-484	3.7	96
39	Climate change intensification of horizontal water vapor transport in CMIP5. <i>Geophysical Research Letters</i> , 2015 , 42, 5617-5625	4.9	88
38	Potential increase in floods in California's Sierra Nevada under future climate projections. <i>Climatic Change</i> , 2011 , 109, 71-94	4.5	85
37	Precipitation regime change in Western North America: The role of Atmospheric Rivers. <i>Scientific Reports</i> , 2019 , 9, 9944	4.9	82
36	Increases in flood magnitudes in California under warming climates. <i>Journal of Hydrology</i> , 2013 , 501, 101-110	6	81
35	Hourly storm characteristics along the U.S. West Coast: Role of atmospheric rivers in extreme precipitation. <i>Geophysical Research Letters</i> , 2017 , 44, 7020-7028	4.9	69
34	A method for physically based model analysis of conjunctive use in response to potential climate changes. <i>Water Resources Research</i> , 2012 , 48,	5.4	68
33	Extreme changes in stable hydrogen isotopes and precipitation characteristics in a landfalling Pacific storm. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	62
32	Predictability of horizontal water vapor transport relative to precipitation: Enhancing situational awareness for forecasting western U.S. extreme precipitation and flooding. <i>Geophysical Research Letters</i> , 2016 , 43, 2275-2282	4.9	57
31	Flood Runoff in Relation to Water Vapor Transport by Atmospheric Rivers Over the Western United States, 1949-2015. <i>Geophysical Research Letters</i> , 2017 , 44, 11,456-11,462	4.9	57
30	A Twenty-First-Century California Observing Network for Monitoring Extreme Weather Events. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 1585-1603	2	55
29	Snow-fed streamflow timing at different basin scales: Case study of the Tuolumne River above Hetch Hetchy, Yosemite, California. <i>Water Resources Research</i> , 2005 , 41,	5.4	45
28	How snowpack heterogeneity affects diurnal streamflow timing. <i>Water Resources Research</i> , 2005 , 41,	5.4	43
27	Design and quantification of an extreme winter storm scenario for emergency preparedness and planning exercises in California. <i>Natural Hazards</i> , 2012 , 60, 1085-1111	3	38
26	Geochemistry and isotope hydrology of representative aquifers in the Great Basin region of Nevada, Utah, and adjacent states. <i>US Geological Survey Professional Paper</i> ,		38
25	California's Drought of the Future: A Midcentury Recreation of the Exceptional Conditions of 2012-2017. <i>Earth's Future</i> , 2018 , 6, 1568-1587	7.9	37
24	The Ancient Blue Oak Woodlands of California: Longevity and Hydroclimatic History. <i>Earth Interactions</i> , 2013 , 17, 1-23	1.5	35

23	The coming megafloods. <i>Scientific American</i> , 2013 , 308, 64-71	0.5	26
22	Sensitivity of Intermittent Streams to Climate Variations in the USA. <i>River Research and Applications</i> , 2016 , 32, 885-895	2.3	26
21	Projections and downscaling of 21st century temperatures, precipitation, radiative fluxes and winds for the Southwestern US, with focus on Lake Tahoe. <i>Climatic Change</i> , 2013 , 116, 17-33	4.5	24
20	Climate and floods still govern California levee breaks. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	23
19	Empirical Return Periods of the Most Intense Vapor Transports during Historical Atmospheric River Landfalls on the U.S. West Coast. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1363-1377	3.7	19
18	Interseasonal covariability of Sierra Nevada streamflow and San Francisco Bay salinity. <i>Journal of Hydrology</i> , 2003 , 277, 164-181	6	16
17	Yosemite Hydroclimate Network: Distributed stream and atmospheric data for the Tuolumne River watershed and surroundings. <i>Water Resources Research</i> , 2016 , 52, 7478-7489	5.4	16
16	Influence of atmospheric rivers on vegetation productivity and fire patterns in the southwestern U.S.. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 308-323	3.7	14
15	A 142-Year Climatology of Northern California Landslides and Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1499-1509	6.1	14
14	Storage in California's Reservoirs and Snowpack in this Time of Drought. <i>San Francisco Estuary and Watershed Science</i> , 2015 , 13,	1.4	14
13	Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001129	3.1	11
12	Patterns and Drivers of Atmospheric River Precipitation and Hydrologic Impacts across the Western United States. <i>Journal of Hydrometeorology</i> , 2020 , 21, 143-159	3.7	9
11	Promoting Atmospheric-River and Snowmelt-Fueled Biogeomorphic Processes by Restoring River-Floodplain Connectivity in California's Central Valley 2015 , 119-141		8
10	Application of an extreme winter storm scenario to identify vulnerabilities, mitigation options, and science needs in the Sierra Nevada mountains, USA. <i>Natural Hazards</i> , 2016 , 80, 879-900	3	6
9	Changes in streamflow timing in the western United States in recent decades. <i>US Geological Survey Fact Sheet</i> ,		6
8	Recent Changes in United States Extreme 3-Day Precipitation Using the R-CAT Scale. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1207-1221	3.7	5
7	Precipitation-runoff processes in the Feather River basin, northeastern California, and streamflow predictability, water years 1971-97. <i>USGS Scientific Investigations Report</i> ,		4
6	The Future of Atmospheric River Research and Applications 2020 , 219-247		3

5	Techniques for constructing climate scenarios for stress test applications. <i>Climatic Change</i> , 2021 , 164, 1	4-5	3
4	Ground-water conditions in Las Vegas Valley, Clark County, Nevada; Part II, Hydrogeology and simulation of ground-water flow. <i>US Geological Survey Open-File Report</i> ,		2
3	Applications of Knowledge and Predictions of Atmospheric Rivers 2020 , 201-218		1
2	Effects of Atmospheric Rivers 2020 , 141-177		1
1	Introduction to Atmospheric Rivers 2020 , 1-13		