

# Michael D Dettinger

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

9,946  
citations

117571

34  
h-index

189801

50  
g-index

68  
all docs

68  
docs citations

68  
times ranked

9034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced spectral methods for climatic time series. <i>Reviews of Geophysics</i> , 2002, 40, 3-1.	9.0	1,695
2	Changes toward Earlier Streamflow Timing across Western North America. <i>Journal of Climate</i> , 2005, 18, 1136-1155.	1.2	1,057
3	Atmospheric Rivers, Floods and the Water Resources of California. <i>Water (Switzerland)</i> , 2011, 3, 445-478.	1.2	683
4	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.	0.7	555
5	Flooding on California's Russian River: Role of atmospheric rivers. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	547
6	Climate change scenarios for the California region. <i>Climatic Change</i> , 2008, 87, 21-42.	1.7	483
7	Climate and Wildfire in the Western United States. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 595-604.	1.7	410
8	North-South Precipitation Patterns in Western North America on Interannual-to-Decadal Timescales. <i>Journal of Climate</i> , 1998, 11, 3095-3111.	1.2	371
9	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.	1.5	369
10	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.	1.7	308
11	Atmospheric Rivers as Drought Busters on the U.S. West Coast. <i>Journal of Hydrometeorology</i> , 2013, 14, 1721-1732.	0.7	277
12	The key role of dry days in changing regional climate and precipitation regimes. <i>Scientific Reports</i> , 2014, 4, 4364.	1.6	255
13	Precipitation in a warming world: Assessing projected hydro-climate changes in California and other Mediterranean climate regions. <i>Scientific Reports</i> , 2017, 7, 10783.	1.6	238
14	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.	0.7	218
15	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, 15659-15664.	3.3	210
16	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.	0.5	191
17	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.	1.7	175
18	Precipitation regime change in Western North America: The role of Atmospheric Rivers. <i>Scientific Reports</i> , 2019, 9, 9944.	1.6	153

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19	Assessing reservoir operations risk under climate change. <i>Water Resources Research</i> , 2009, 45, .	1.7	149
20	Climate change intensification of horizontal water vapor transport in CMIP5. <i>Geophysical Research Letters</i> , 2015, 42, 5617-5625.	1.5	127
21	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.	0.7	119
22	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.	1.5	108
23	Potential increase in floods in California's Sierra Nevada under future climate projections. <i>Climatic Change</i> , 2011, 109, 71-94.	1.7	98
24	Increases in flood magnitudes in California under warming climates. <i>Journal of Hydrology</i> , 2013, 501, 101-110.	2.3	98
25	A method for physically based model analysis of conjunctive use in response to potential climate changes. <i>Water Resources Research</i> , 2012, 48, .	1.7	78
26	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.	1.5	78
27	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.	1.5	75
28	Extreme changes in stable hydrogen isotopes and precipitation characteristics in a landfalling Pacific storm. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	71
29	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.	2.4	64
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.	0.5	61
31	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, .	1.7	56
32	How snowpack heterogeneity affects diurnal streamflow timing. <i>Water Resources Research</i> , 2005, 41, .	1.7	51
33	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.	1.6	43
34	The Ancient Blue Oak Woodlands of California: Longevity and Hydroclimatic History. <i>Earth Interactions</i> , 2013, 17, 1-23.	0.7	42
35	Sensitivity of Intermittent Streams to Climate Variations in the USA. <i>River Research and Applications</i> , 2016, 32, 885-895.	0.7	38
36	The Coming Megafloods. <i>Scientific American</i> , 2012, 308, 64-71.	1.0	33

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37	Climate and floods still govern California levee breaks. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	28
38	A 142-Year Climatology of Northern California Landslides and Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1499-1509.	1.7	26
39	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.	1.7	25
40	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.	0.7	25
41	Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network. <i>Earth and Space Science</i> , 2020, 7, e2020EA001129.	1.1	23
42	Yosemite Hydroclimate Network: Distributed stream and atmospheric data for the Tuolumne River watershed and surroundings. <i>Water Resources Research</i> , 2016, 52, 7478-7489.	1.7	22
43	Storage in California's Reservoirs and Snowpack in this Time of Drought. <i>San Francisco Estuary and Watershed Science</i> , 2015, 13, .	0.2	21
44	Interseasonal covariability of Sierra Nevada streamflow and San Francisco Bay salinity. <i>Journal of Hydrology</i> , 2003, 277, 164-181.	2.3	19
45	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.	1.3	17
46	Patterns and Drivers of Atmospheric River Precipitation and Hydrologic Impacts across the Western United States. <i>Journal of Hydrometeorology</i> , 2020, 21, 143-159.	0.7	16
47	Promoting Atmospheric-River and Snowmelt-Fueled Biogeomorphic Processes by Restoring River-Floodplain Connectivity in California's Central Valley. , 2015, , 119-141.		13
48	A Multidataset Assessment of Climatic Drivers and Uncertainties of Recent Trends in Evaporative Demand across the Continental United States. <i>Journal of Hydrometeorology</i> , 2022, 23, 505-519.	0.7	12
49	Techniques for constructing climate scenarios for stress test applications. <i>Climatic Change</i> , 2021, 164, 1.	1.7	10
50	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.	1.6	9
51	Recent Changes in United States Extreme 3-Day Precipitation Using the R-CAT Scale. <i>Journal of Hydrometeorology</i> , 2020, 21, 1207-1221.	0.7	9
52	The Future of Atmospheric River Research and Applications. , 2020, , 219-247.		3
53	Effects of Atmospheric Rivers. , 2020, , 141-177.		2
54	Introduction to Atmospheric Rivers. , 2020, , 1-13.		1

#	ARTICLE	IF	CITATIONS
55	Applications of Knowledge and Predictions of Atmospheric Rivers. , 2020, , 201-218.		1