

Daniel Cayan

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.

82

papers

9,016

citations

40

h-index

88

g-index

88

ext. papers

9,979

ext. citations

5.6

avg, IF

6.1

L-index

#	Paper	IF	Citations
82	Changes toward Earlier Streamflow Timing across Western North America. <i>Journal of Climate</i> , 2005 , 18, 1136-1155	4.4	919
81	Trends in Snowfall versus Rainfall in the Western United States. <i>Journal of Climate</i> , 2006 , 19, 4545-4559	4.4	635
80	Emissions pathways, climate change, and impacts on California. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12422-7	11.5	605
79	Atmospheric Rivers, Floods and the Water Resources of California. <i>Water (Switzerland)</i> , 2011 , 3, 445-478	3	541
78	Climate change impacts on U.S. Coastal and Marine Ecosystems. <i>Estuaries and Coasts</i> , 2002 , 25, 149-164		518
77	Changes in Snowmelt Runoff Timing in Western North America under a 'Business as Usual' Climate Change Scenario. <i>Climatic Change</i> , 2004 , 62, 217-232	4.5	516
76	Future dryness in the southwest US and the hydrology of the early 21st century drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 21271-6	11.5	476
75	Flooding on California's Russian River: Role of atmospheric rivers. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	463
74	Climate change scenarios for the California region. <i>Climatic Change</i> , 2008 , 87, 21-42	4.5	422
73	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
72	Statistical Downscaling Using Localized Constructed Analogs (LOCA)*. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2558-2585	3.7	208
71	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies. <i>Climate Dynamics</i> , 1994 , 9, 287-302	4.2	189
70	A spatially comprehensive, hydrometeorological data set for Mexico, the U.S., and Southern Canada 1950-2013. <i>Scientific Data</i> , 2015 , 2, 150042	8.2	185
69	The key role of dry days in changing regional climate and precipitation regimes. <i>Scientific Reports</i> , 2014 , 4, 4364	4.9	178
68	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
67	Remote Hydrology. Ongoing drought-induced uplift in the western United States. <i>Science</i> , 2014 , 345, 1587-90	33.3	160
66	Potential effects of global warming on the Sacramento/San Joaquin watershed and the San Francisco estuary. <i>Geophysical Research Letters</i> , 2002 , 29, 38-1-38-4	4.9	147

65	Surface temperature patterns in complex terrain: Daily variations and long-term change in the central Sierra Nevada, California. <i>Journal of Geophysical Research</i> , 2007 , 112,		126
64	Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7952-7	11.5	121
63	Climate change projections of sea level extremes along the California coast. <i>Climatic Change</i> , 2008 , 87, 57-73	4.5	119
62	Probabilistic estimates of future changes in California temperature and precipitation using statistical and dynamical downscaling. <i>Climate Dynamics</i> , 2013 , 40, 839-856	4.2	115
61	Atmospheric circulation during Holocene lake stands in the Mojave Desert: evidence of regional climate change. <i>Nature</i> , 1989 , 341, 44-47	50.4	113
60	Elevational Dependence of Projected Hydrologic Changes in the San Francisco Estuary and Watershed. <i>Climatic Change</i> , 2004 , 62, 319-336	4.5	110
59	Climate, Santa Ana Winds and autumn wildfires in southern California. <i>Eos</i> , 2004 , 85, 289	1.5	102
58	Second California Assessment: integrated climate change impacts assessment of natural and managed systems. Guest editorial. <i>Climatic Change</i> , 2011 , 109, 1-19	4.5	90
57	Potential increase in floods in California's Sierra Nevada under future climate projections. <i>Climatic Change</i> , 2011 , 109, 71-94	4.5	85
56	Winter Orographic Precipitation Ratios in the Sierra Nevada Large-Scale Atmospheric Circulations and Hydrologic Consequences. <i>Journal of Hydrometeorology</i> , 2004 , 5, 1102-1116	3.7	83
55	Precipitation regime change in Western North America: The role of Atmospheric Rivers. <i>Scientific Reports</i> , 2019 , 9, 9944	4.9	82
54	The Key Role of Heavy Precipitation Events in Climate Model Disagreements of Future Annual Precipitation Changes in California. <i>Journal of Climate</i> , 2013 , 26, 5879-5896	4.4	82
53	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
52	Wave spectral energy variability in the northeast Pacific. <i>Journal of Geophysical Research</i> , 2005 , 110,		66
51	Variability of latent and sensible heat fluxes estimated using bulk formulae. <i>Atmosphere - Ocean</i> , 1992 , 30, 1-42	1.5	62
50	The importance of warm season warming to western U.S. streamflow changes. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	57
49	Natural climate variability and teleconnections to precipitation over the Pacific-North American region in CMIP3 and CMIP5 models. <i>Geophysical Research Letters</i> , 2013 , 40, 2296-2301	4.9	52
48	Western U.S. Extreme Precipitation Events and Their Relation to ENSO and PDO in CCSM4. <i>Journal of Climate</i> , 2013 , 26, 4231-4243	4.4	51

47	Atmospheric rivers drive flood damages in the western United States. <i>Science Advances</i> , 2019 , 5, eaax4631.3	51
46	The variability of California summertime marine stratus: Impacts on surface air temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9105-9122	4.4 46
45	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
44	Implementing a U.S. National Phenology Network. <i>Eos</i> , 2005 , 86, 539	1.5 45
43	Influences of climate change on California and Nevada regions revealed by a high-resolution dynamical downscaling study. <i>Climate Dynamics</i> , 2011 , 37, 2005-2020	4.2 42
42	Developing and Evaluating Drought Indicators for Decision-Making. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1793-1803	3.7 40
41	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
40	Santa Ana Winds of Southern California: Their climatology, extremes, and behavior spanning six and a half decades. <i>Geophysical Research Letters</i> , 2016 , 43, 2827-2834	4.9 34
39	Projected climate change scenario over California by a regional ocean-atmosphere coupled model system. <i>Climatic Change</i> , 2014 , 122, 609-619	4.5 31
38	Statistical downscaling of climate change impacts on ozone concentrations in California. <i>Journal of Geophysical Research</i> , 2008 , 113,	31
37	Heat wave probability in the changing climate of the Southwest US. <i>Climate Dynamics</i> , 2018 , 50, 3853-3864	4.4 29
36	The Impact of Climate Change on Air Quality-Related Meteorological Conditions in California. Part I: Present Time Simulation Analysis. <i>Journal of Climate</i> , 2011 , 24, 3344-3361	4.4 28
35	Linking climate change science with policy in California. <i>Climatic Change</i> , 2008 , 87, 7-20	4.5 26
34	The northward march of summer low cloudiness along the California coast. <i>Geophysical Research Letters</i> , 2016 , 43, 1287-1295	4.9 25
33	The Modular Aerial Sensing System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 1169-1184	2.5 25
32	North American west coast summer low cloudiness: Broadscale variability associated with sea surface temperature. <i>Geophysical Research Letters</i> , 2014 , 41, 3307-3314	4.9 25
31	A high-resolution ocean-atmosphere coupled downscaling of the present climate over California. <i>Climate Dynamics</i> , 2014 , 42, 701-714	4.2 25
30	Overview of the California climate change scenarios project. <i>Climatic Change</i> , 2008 , 87, 1-6	4.5 25

29	Interannual modulation of subtropical Atlantic boreal summer dust variability by ENSO. <i>Climate Dynamics</i> , 2016 , 46, 585-599	4.2	19
28	Multi-model projections of twenty-first century North Pacific winter wave climate under the IPCC A2 scenario. <i>Climate Dynamics</i> , 2013 , 40, 1335-1360	4.2	19
27	The Effect of El Niño on Flood Damages in the Western United States. <i>Weather, Climate, and Society</i> , 2019 , 11, 489-504	2.3	16
26	Kawasaki disease and ENSO-driven wind circulation. <i>Geophysical Research Letters</i> , 2013 , 40, 2284-2289	4.9	16
25	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
24	Clustering and climate associations of Kawasaki Disease in San Diego County suggest environmental triggers. <i>Scientific Reports</i> , 2018 , 8, 16140	4.9	16
23	Impacts of ENSO events on cloud radiative effects in preindustrial conditions: Changes in cloud fraction and their dependence on interactive aerosol emissions and concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6321-6335	4.4	15
22	Precipitable Water from GPS Zenith Delays Using North American Regional Reanalysis Meteorology. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013 , 30, 485-495	2	15
21	Northerly surface winds over the eastern North Pacific Ocean in spring and summer. <i>Journal of Geophysical Research</i> , 2008 , 113,		15
20	Propagation of future climate conditions into hydrologic response from coastal southern California watersheds. <i>Climatic Change</i> , 2019 , 153, 199-218	4.5	13
19	Daily variability of California coastal low cloudiness: A balancing act between stability and subsidence. <i>Geophysical Research Letters</i> , 2017 , 44, 3330-3338	4.9	9
18	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies 1994 , 9, 287		8
17	Projected Changes in Reference Evapotranspiration in California and Nevada: Implications for Drought and Wildland Fire Danger. <i>Earths Future</i> , 2020 , 8, e2020EF001736	7.9	8
16	Understanding Differences in California Climate Projections Produced by Dynamical and Statistical Downscaling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032812	4.4	7
15	Temporal Clusters of Kawasaki Disease Cases Share Distinct Phenotypes That Suggest Response to Diverse Triggers. <i>Journal of Pediatrics</i> , 2021 , 229, 48-53.e1	3.6	6
14	Water year 2004: Western water managers feel the heat. <i>Eos</i> , 2004 , 85, 385	1.5	5
13	The Influence of Cloudiness on Hydrologic Fluctuations in the Mountains of the Western United States. <i>Water Resources Research</i> , 2018 , 54, 8478-8499	5.4	5
12	Variability of Cloudiness over Mountain Terrain in the Western United States. <i>Journal of Hydrometeorology</i> , 2017 , 18, 1227-1245	3.7	4

11	Semidirect dynamical and radiative effect of North African dust transport on lower tropospheric clouds over the subtropical North Atlantic in CESM 1.0. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8284-8303	4.4	4
10	A Deficit of Seasonal Temperature Forecast Skill over West Coast Regions in NMME. <i>Weather and Forecasting</i> , 2019 , 34, 833-848	2.1	2
9	Riverine C, N, Si And P Transport to the Coastal Ocean? An Overview. <i>Lecture Notes on Coastal and Estuarine Studies</i> , 1988 , 227-253		2
8	Understanding the Asymmetry of Annual Streamflow Responses to Seasonal Warming in the Western United States. <i>Water Resources Research</i> , 2020 , 56, e2020WR027158	5.4	2
7	Ignitions explain more than temperature or precipitation in driving Santa Ana wind fires. <i>Science Advances</i> , 2021 , 7,	14.3	2
6	The Pacific Climate Workshops. <i>Eos</i> , 1986 , 67, 1404	1.5	1
5	The key role of dry days in changing regional climate and precipitation regimes		1
4	Multiple climate change-driven tipping points for coastal systems. <i>Scientific Reports</i> , 2021 , 11, 15560	4.9	1
3	Temporal clustering of Kawasaki disease cases around the world. <i>Scientific Reports</i> , 2021 , 11, 22584	4.9	0
2	Hot and cold flavors of southern California's Santa Ana winds: their causes, trends, and links with wildfire. <i>Climate Dynamics</i> , 2021 , 57, 1-16	4.2	0
1	Associations of breeding-bird abundance with climate vary among species and trait-based groups in southern California. <i>PLoS ONE</i> , 2020 , 15, e0230614	3.7	0