

Daniel Cayan

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

11,201
citations

66315

42
h-index

54882

84
g-index

88
all docs

88
docs citations

88
times ranked

10823
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes toward Earlier Streamflow Timing across Western North America. <i>Journal of Climate</i> , 2005, 18, 1136-1155.	1.2	1,057
2	Trends in Snowfall versus Rainfall in the Western United States. <i>Journal of Climate</i> , 2006, 19, 4545-4559.	1.2	731
3	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, 12422-12427.	3.3	709
4	Atmospheric Rivers, Floods and the Water Resources of California. <i>Water (Switzerland)</i> , 2011, 3, 445-478.	1.2	683
5	Climate change impacts on U.S. Coastal and Marine Ecosystems. <i>Estuaries and Coasts</i> , 2002, 25, 149-164.	1.7	622
6	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.	1.7	603
7	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, 21271-21276.	3.3	567
8	Flooding on California's Russian River: Role of atmospheric rivers. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	547
9	Climate change scenarios for the California region. <i>Climatic Change</i> , 2008, 87, 21-42.	1.7	483
10	Statistical Downscaling Using Localized Constructed Analogs (LOCA)*. <i>Journal of Hydrometeorology</i> , 2014, 15, 2558-2585.	0.7	312
11	Simulated Hydrologic Responses to Climate Variations and Change in the Merced, Carson, and American River Basins, Sierra Nevada, California, 1900â€”2099. <i>Climatic Change</i> , 2004, 62, 283-317.	1.7	308
12	A spatially comprehensive, hydrometeorological data set for Mexico, the U.S., and Southern Canada 1950â€”2013. <i>Scientific Data</i> , 2015, 2, 150042.	2.4	277
13	The key role of dry days in changing regional climate and precipitation regimes. <i>Scientific Reports</i> , 2014, 4, 4364.	1.6	255
14	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies. <i>Climate Dynamics</i> , 1994, 9, 287-302.	1.7	251
15	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
16	Ongoing drought-induced uplift in the western United States. <i>Science</i> , 2014, 345, 1587-1590.	6.0	194
17	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.	1.5	180
18	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, 7952-7957.	3.3	171

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19	Precipitation regime change in Western North America: The role of Atmospheric Rivers. Scientific Reports, 2019, 9, 9944.	1.6	153
20	Surface temperature patterns in complex terrain: Daily variations and long-term change in the central Sierra Nevada, California. Journal of Geophysical Research, 2007, 112, .	3.3	145
21	Climate change projections of sea level extremes along the California coast. Climatic Change, 2008, 87, 57-73.	1.7	142
22	Probabilistic estimates of future changes in California temperature and precipitation using statistical and dynamical downscaling. Climate Dynamics, 2013, 40, 839-856.	1.7	136
23	Atmospheric circulation during Holocene lake stands in the Mojave Desert: evidence of regional climate change. Nature, 1989, 341, 44-47.	13.7	129
24	Climate, Santa Ana Winds and autumn wildfires in southern California. Eos, 2004, 85, 289.	0.1	125
25	Elevational Dependence of Projected Hydrologic Changes in the San Francisco Estuary and Watershed. Climatic Change, 2004, 62, 319-336.	1.7	119
26	Second California Assessment: integrated climate change impacts assessment of natural and managed systems. Guest editorial. Climatic Change, 2011, 109, 1-19.	1.7	107
27	Atmospheric rivers drive flood damages in the western United States. Science Advances, 2019, 5, eaax4631.	4.7	104
28	Potential increase in floods in California's Sierra Nevada under future climate projections. Climatic Change, 2011, 109, 71-94.	1.7	98
29	Winter Orographic Precipitation Ratios in the Sierra Nevada's Large-Scale Atmospheric Circulations and Hydrologic Consequences. Journal of Hydrometeorology, 2004, 5, 1102-1116.	0.7	95
30	The Key Role of Heavy Precipitation Events in Climate Model Disagreements of Future Annual Precipitation Changes in California. Journal of Climate, 2013, 26, 5879-5896.	1.2	93
31	Wave spectral energy variability in the northeast Pacific. Journal of Geophysical Research, 2005, 110, .	3.3	84
32	Variability of latent and sensible heat fluxes estimated using bulk formulae. Atmosphere - Ocean, 1992, 30, 1-42.	0.6	79
33	A method for physically based model analysis of conjunctive use in response to potential climate changes. Water Resources Research, 2012, 48, .	1.7	78
34	The importance of warm season warming to western U.S. streamflow changes. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	77
35	Western U.S. Extreme Precipitation Events and Their Relation to ENSO and PDO in CCSM4. Journal of Climate, 2013, 26, 4231-4243.	1.2	61
36	Natural climate variability and teleconnections to precipitation over the Pacific-North American region in CMIP3 and CMIP5 models. Geophysical Research Letters, 2013, 40, 2296-2301.	1.5	58

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37	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
38	Developing and Evaluating Drought Indicators for Decision-Making. <i>Journal of Hydrometeorology</i> , 2015, 16, 1793-1803.	0.7	55
39	The variability of California summertime marine stratus: Impacts on surface air temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9105-9122.	1.2	54
40	Implementing a U.S. National Phenology Network. <i>Eos</i> , 2005, 86, 539.	0.1	51
41	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.	1.5	51
42	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.	1.7	44
43	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
44	Heat wave probability in the changing climate of the Southwest US. <i>Climate Dynamics</i> , 2018, 50, 3853-3864.	1.7	42
45	Projected climate change scenario over California by a regional ocean-atmosphere coupled model system. <i>Climatic Change</i> , 2014, 122, 609-619.	1.7	41
46	Statistical downscaling of climate change impacts on ozone concentrations in California. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
47	Multiple climate change-driven tipping points for coastal systems. <i>Scientific Reports</i> , 2021, 11, 15560.	1.6	35
48	The northward march of summer low cloudiness along the California coast. <i>Geophysical Research Letters</i> , 2016, 43, 1287-1295.	1.5	34
49	Linking climate change science with policy in California. <i>Climatic Change</i> , 2008, 87, 7-20.	1.7	33
50	The Modular Aerial Sensing System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1169-1184.	0.5	33
51	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.	1.2	32
52	A high-resolution ocean-atmosphere coupled downscaling of the present climate over California. <i>Climate Dynamics</i> , 2014, 42, 701-714.	1.7	32
53	North American west coast summer low cloudiness: Broadscale variability associated with sea surface temperature. <i>Geophysical Research Letters</i> , 2014, 41, 3307-3314.	1.5	32
54	Clustering and climate associations of Kawasaki Disease in San Diego County suggest environmental triggers. <i>Scientific Reports</i> , 2018, 8, 16140.	1.6	29

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55	Overview of the California climate change scenarios project. <i>Climatic Change</i> , 2008, 87, 1-6.	1.7	28
56	The Effect of El Niño on Flood Damages in the Western United States. <i>Weather, Climate, and Society</i> , 2019, 11, 489-504.	0.5	28
57	Projected Changes in Reference Evapotranspiration in California and Nevada: Implications for Drought and Wildland Fire Danger. <i>Earth's Future</i> , 2020, 8, e2020EF001736.	2.4	27
58	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.	1.2	23
59	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
60	Interannual modulation of subtropical Atlantic boreal summer dust variability by ENSO. <i>Climate Dynamics</i> , 2016, 46, 585-599.	1.7	21
61	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.	1.7	20
62	Kawasaki disease and ENSO-driven wind circulation. <i>Geophysical Research Letters</i> , 2013, 40, 2284-2289.	1.5	19
63	Interdecadal variability of the Pacific Ocean: model response to observed heat flux and wind stress anomalies. <i>Climate Dynamics</i> , 1994, 9, 287-302.	1.7	19
64	Northerly surface winds over the eastern North Pacific Ocean in spring and summer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	18
65	Precipitable Water from GPS Zenith Delays Using North American Regional Reanalysis Meteorology. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 485-495.	0.5	16
66	Propagation of future climate conditions into hydrologic response from coastal southern California watersheds. <i>Climatic Change</i> , 2019, 153, 199-218.	1.7	16
67	Understanding Differences in California Climate Projections Produced by Dynamical and Statistical Downscaling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032812.	1.2	16
68	Epidemiological and Clinical Features of Kawasaki Disease During the COVID-19 Pandemic in the United States. <i>JAMA Network Open</i> , 2022, 5, e2217436.	2.8	16
69	Daily variability of California coastal low cloudiness: A balancing act between stability and subsidence. <i>Geophysical Research Letters</i> , 2017, 44, 3330-3338.	1.5	14
70	Hot and cold flavors of southern California's Santa Ana winds: their causes, trends, and links with wildfire. <i>Climate Dynamics</i> , 2021, 57, 2233-2248.	1.7	14
71	Ignitions explain more than temperature or precipitation in driving Santa Ana wind fires. <i>Science Advances</i> , 2021, 7, .	4.7	11
72	Understanding the Asymmetry of Annual Streamflow Responses to Seasonal Warming in the Western United States. <i>Water Resources Research</i> , 2020, 56, e2020WR027158.	1.7	10

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73	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.	0.9	10
74	Water year 2004: Western water managers feel the heat. <i>Eos</i> , 2004, 85, 385.	0.1	8
75	The Influence of Cloudiness on Hydrologic Fluctuations in the Mountains of the Western United States. <i>Water Resources Research</i> , 2018, 54, 8478-8499.	1.7	6
76	Semidirect dynamical and radiative effect of North African dust transport on lower tropospheric clouds over the subtropical North Atlantic in CESM v1.0. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8284-8303.	1.2	5
77	Variability of Cloudiness over Mountain Terrain in the Western United States. <i>Journal of Hydrometeorology</i> , 2017, 18, 1227-1245.	0.7	5
78	Associations of breeding-bird abundance with climate vary among species and trait-based groups in southern California. <i>PLoS ONE</i> , 2020, 15, e0230614.	1.1	5
79	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.	0.2	4
80	Evaluating Global Climate Models for Hydrological Studies of the Upper Colorado River Basin. <i>Journal of the American Water Resources Association</i> , 2022, 58, 709-734.	1.0	4
81	Temporal clustering of Kawasaki disease cases around the world. <i>Scientific Reports</i> , 2021, 11, 22584.	1.6	4
82	The Pacific Climate Workshops. <i>Eos</i> , 1986, 67, 1404-1405.	0.1	3
83	A Deficit of Seasonal Temperature Forecast Skill over West Coast Regions in NMME. <i>Weather and Forecasting</i> , 2019, 34, 833-848.	0.5	2
84	The key role of dry days in changing regional climate and precipitation regimes. , 0, .		1