David W Pierce

List of Publications by Citations

46 papers	5,415 citations	31 h-index	47 g-index
47 ext. papers	6,011 ext. citations	7 avg, IF	5.56 L-index

#	Paper	IF	Citations
46	Human-induced changes in the hydrology of the western United States. *Science*, **2008**, 319, 1080-3	33.3	823
45	Future dryness in the southwest US and the hydrology of the early 21st century drought. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 21271-6	11.5	476
44	Selecting global climate models for regional climate change studies. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 8441-6	11.5	435
43	Penetration of human-induced warming into the world's oceans. *Science*, **2005**, 309, 284-7	33.3	339
42	Detection of anthropogenic climate change in the world's oceans. *Science*, **2001**, 292, 270-4	33.3	300
41	Statistical Downscaling Using Localized Constructed Analogs (LOCA)*. *Journal of Hydrometeorology* , **2014**, 15, 2558-2585	3.7	208
40	Attribution of Declining Western U.S. Snowpack to Human Effects. *Journal of Climate*, **2008**, 21, 6425-6444	4.4	198
39	A spatially comprehensive, hydrometeorological data set for Mexico, the U.S., and Southern Canada 1950-2013. *Scientific Data*, **2015**, 2, 150042	8.2	185
38	Anatomy of North Pacific Decadal Variability. *Journal of Climate*, **2002**, 15, 586-605	4.4	184
37	The key role of dry days in changing regional climate and precipitation regimes. *Scientific Reports*, **2014**, 4, 4364	4.9	178
36	Interdecadal interactions between the tropics and midlatitudes in the Pacific Basin. *Geophysical Research Letters*, **1999**, 26, 615-618	4.9	174
35	Precipitation in a warming world: Assessing projected hydro-climate changes in California and other Mediterranean climate regions. *Scientific Reports*, **2017**, 7, 10783	4.9	167
34	Connections between the Pacific Ocean Tropics and Midlatitudes on Decadal Timescales. *Journal of Climate*, **2000**, 13, 1173-1194	4.4	161
33	When will Lake Mead go dry?. *Water Resources Research*, **2008**, 44,	5.4	149
32	Improved Bias Correction Techniques for Hydrological Simulations of Climate Change*. *Journal of Hydrometeorology*, **2015**, 16, 2421-2442	3.7	144
31	Sustainable water deliveries from the Colorado River in a changing climate. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7334-8	11.5	121
30	Probabilistic estimates of future changes in California temperature and precipitation using statistical and dynamical downscaling. *Climate Dynamics*, **2013**, 40, 839-856	4.2	115

29	Detection and Attribution of Temperature Changes in the Mountainous Western United States. *Journal of Climate*, **2008**, 21, 6404-6424	4.4	97
28	Anthropogenic Warming of the Oceans: Observations and Model Results. *Journal of Climate*, **2006**, 19, 1873-1900	4.4	85
27	Precipitation regime change in Western North America: The role of Atmospheric Rivers. *Scientific Reports*, **2019**, 9, 9944	4.9	82
26	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	4.4	82
25	Increases in flood magnitudes in California under warming climates. *Journal of Hydrology*, **2013**, 501, 101-110	6	81
24	Origins of the midlatitude Pacific decadal variability. *Geophysical Research Letters*, **1999**, 26, 1453-1456	4.9	71
23	The fingerprint of human-induced changes in the ocean's salinity and temperature fields. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	67
22	Pacific thermocline bridge revisited. *Geophysical Research Letters*, **1999**, 26, 1329-1332	4.9	65
21	The Uneven Response of Different Snow Measures to Human-Induced Climate Warming. *Journal of Climate*, **2013**, 26, 4148-4167	4.4	57
20	The importance of warm season warming to western U.S. streamflow changes. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	57
19	Western U.S. Extreme Precipitation Events and Their Relation to ENSO and PDO in CCSM4. *Journal of Climate*, **2013**, 26, 4231-4243	4.4	51
18	Modeling of North Pacific Climate Variability Forced by Oceanic Heat Flux Anomalies. *Journal of Climate*, **2001**, 14, 4027-4046	4.4	39
17	Distinguishing coupled ocean□atmosphere interactions from background noise in the North Pacific. *Progress in Oceanography*, **2001**, 49, 331-352	3.8	38
16	The ACPI Project, Element 1: Initializing a Coupled Climate Model from Observed Conditions. *Climatic Change*, **2004**, 62, 13-28	4.5	34
15	The Role of Sea Surface Temperatures in Interactions between ENSO and the North Pacific Oscillation. *Journal of Climate*, **2002**, 15, 1295-1308	4.4	31
14	Heat wave probability in the changing climate of the Southwest US. *Climate Dynamics*, **2018**, 50, 3853-3864	4.4	29
13	Convective Building of a Pycnocline: Laboratory Experiments. *Journal of Physical Oceanography*, **1996**, 26, 176-190	2.4	20
12	Variability of the Thermohaline Circulation in an Ocean General Circulation Model Coupled to an Atmospheric Energy Balance Model. *Journal of Physical Oceanography*, **1996**, 26, 725-738	2.4	14

11	On Spatial Scales and Lifetimes of SST Anomalies beneath a Diffusive Atmosphere. *Journal of Physical Oceanography*, **1997**, 27, 133-139	2.4	12
10	Coupled ocean□tmosphere modeling and predictions. *Journal of Marine Research*, **2017**, 75, 361-402	1.5	8
9	Ocean Circulations, Heat Budgets, and Future Commitment to Climate Change. *Annual Review of Environment and Resources*, **2011**, 36, 27-43	17.2	8
8	Evaluation of Hydrologically Relevant PCM Climate Variables and Large-Scale Variability over the Continental U.S.. *Climatic Change*, **2004**, 62, 45-74	4.5	8
7	Projected Changes in Reference Evapotranspiration in California and Nevada: Implications for Drought and Wildland Fire Danger. *Earth's Future*, **2020**, 8, e2020EF001736	7.9	8
6	Projected Changes of Precipitation Characteristics Depend on Downscaling Method and Training Data: MACA versus LOCA Using the U.S. Northeast as an Example. *Journal of Hydrometeorology*, **2020**, 21, 2739-2758	3.7	6
5	Convective Building of a Pycnocline: A Two-Dimensional Nonhydrostatic Numerical Model. *Journal of Physical Oceanography*, **1997**, 27, 909-925	2.4	2
4	Ignitions explain more than temperature or precipitation in driving Santa Ana wind fires. *Science Advances*, **2021**, 7,	14.3	2
3	Reply to comment by J. J. Barsugli et al. on □When will Lake Mead go dry?□ *Water Resources Research*, **2009**, 45,	5.4	1
2	The key role of dry days in changing regional climate and precipitation regimes		1
1	Identifying and correcting biases in localized downscaling estimates of daily precipitation return values. *Climatic Change*, **2021**, 169, 1	4.5	