

# Benjamin D Santer

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

5,924  
citations

136950

32  
h-index

289244

40  
g-index

40  
all docs

40  
docs citations

40  
times ranked

7102  
citing authors

#	ARTICLE	IF	CITATIONS
1	Human-Induced Changes in the Hydrology of the Western United States. <i>Science</i> , 2008, 319, 1080-1083.	12.6	956
2	An Overview of the Results of the Atmospheric Model Intercomparison Project (AMIP I). <i>Bulletin of the American Meteorological Society</i> , 1999, 80, 29-55.	3.3	668
3	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019, 9, 102-110.	18.8	407
4	Penetration of Human-Induced Warming into the World's Oceans. <i>Science</i> , 2005, 309, 284-287.	12.6	406
5	Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014, 7, 185-189.	12.9	364
6	Making sense of the early-2000s warming slowdown. <i>Nature Climate Change</i> , 2016, 6, 224-228.	18.8	333
7	Detecting Greenhouse-Gas-Induced Climate Change with an Optimal Fingerprint Method. <i>Journal of Climate</i> , 1996, 9, 2281-2306.	3.2	304
8	The Detection and Attribution Model Intercomparison Project (DAMIP v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 3685-3697.	3.6	280
9	Attribution of Declining Western U.S. Snowpack to Human Effects. <i>Journal of Climate</i> , 2008, 21, 6425-6444.	3.2	217
10	Large near-term projected snowpack loss over the western United States. <i>Nature Communications</i> , 2017, 8, 14996.	12.8	203
11	Contribution of the Interdecadal Pacific Oscillation to twentieth-century global surface temperature trends. <i>Nature Climate Change</i> , 2016, 6, 1005-1008.	18.8	156
12	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 26-33.	7.1	117
13	Identification of anthropogenic climate change using a second-generation reanalysis. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	112
14	Detection and Attribution of Temperature Changes in the Mountainous Western United States. <i>Journal of Climate</i> , 2008, 21, 6404-6424.	3.2	109
15	Human influence on the seasonal cycle of tropospheric temperature. <i>Science</i> , 2018, 361, .	12.6	103
16	Use of changes in tropopause height to detect human influences on climate. <i>Meteorologische Zeitschrift</i> , 2003, 12, 131-136.	1.0	102
17	Human and natural influences on the changing thermal structure of the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17235-17240.	7.1	84
18	Future loss of Arctic sea-ice cover could drive a substantial decrease in California's rainfall. <i>Nature Communications</i> , 2017, 8, 1947.	12.8	81

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19	Human influence on joint changes in temperature, rainfall and continental aridity. <i>Nature Climate Change</i> , 2020, 10, 726-731.	18.8	75
20	The fingerprint of human-induced changes in the ocean's salinity and temperature fields. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	74
21	Comparing Tropospheric Warming in Climate Models and Satellite Data. <i>Journal of Climate</i> , 2017, 30, 373-392.	3.2	72
22	Relationship between temperature and precipitable water changes over tropical oceans. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	67
23	Quantifying contributions of natural variability and anthropogenic forcings on increased fire weather risk over the western United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	66
24	Ocean variability and its influence on the detectability of greenhouse warming signals. <i>Journal of Geophysical Research</i> , 1995, 100, 10693.	3.3	65
25	Signal-to-noise analysis of time-dependent greenhouse warming experiments. <i>Climate Dynamics</i> , 1994, 9, 267-285.	3.8	59
26	Observed multivariable signals of late 20th and early 21st century volcanic activity. <i>Geophysical Research Letters</i> , 2015, 42, 500-509.	4.0	50
27	Significant impact of forcing uncertainty in a large ensemble of climate model simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	46
28	Influences of the Antarctic Ozone Hole on Southern Hemispheric Summer Climate Change. <i>Journal of Climate</i> , 2014, 27, 6245-6264.	3.2	42
29	Causes of differences in model and satellite tropospheric warming rates. <i>Nature Geoscience</i> , 2017, 10, 478-485.	12.9	40
30	External Influences on Modeled and Observed Cloud Trends. <i>Journal of Climate</i> , 2015, 28, 4820-4840.	3.2	37
31	Mirrored changes in Antarctic ozone and stratospheric temperature in the late 20th versus early 21st centuries. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8940-8950.	3.3	35
32	Sources of Intermodel Spread in the Lapse Rate and Water Vapor Feedbacks. <i>Journal of Climate</i> , 2018, 31, 3187-3206.	3.2	35
33	Celebrating the anniversary of three key events in climate change science. <i>Nature Climate Change</i> , 2019, 9, 180-182.	18.8	34
34	Quantifying stochastic uncertainty in detection time of human-caused climate signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19821-19827.	7.1	32
35	Natural variability contributes to model-satellite differences in tropical tropospheric warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
36	Tropospheric Warming Over The Past Two Decades. <i>Scientific Reports</i> , 2017, 7, 2336.	3.3	21

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37	Climatology Explains Intermodel Spread in Tropical Upper Tropospheric Cloud and Relative Humidity Response to Greenhouse Warming. <i>Geophysical Research Letters</i> , 2019, 46, 13399-13409.	4.0	15
38	Stratospheric cooling and the troposphere. <i>Nature</i> , 2004, 432, 1-1.	27.8	13
39	Detectability of the impacts of ozone-depleting substances and greenhouse gases upon stratospheric ozone accounting for nonlinearities in historical forcings. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 143-166.	4.9	10
40	Multi-Frequency Analysis of Simulated versus Observed Variability in Tropospheric Temperature. <i>Journal of Climate</i> , 2020, 33, 10383-10402.	3.2	7