

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	Natural variability contributes to model-satellite differences in tropical tropospheric warming. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
2	Significant impact of forcing uncertainty in a large ensemble of climate model simulations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	46
3	Quantifying contributions of natural variability and anthropogenic forcings on increased fire weather risk over the western United States. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	66
4	Human influence on joint changes in temperature, rainfall and continental aridity. Nature Climate Change, 2020, 10, 726-731.	18.8	75
5	Multi-Frequency Analysis of Simulated versus Observed Variability in Tropospheric Temperature. Journal of Climate, 2020, 33, 10383-10402.	3.2	7
6	Climatology Explains Intermodel Spread in Tropical Upper Tropospheric Cloud and Relative Humidity Response to Greenhouse Warming. Geophysical Research Letters, 2019, 46, 13399-13409.	4.0	15
7	Celebrating the anniversary of three key events in climate change science. Nature Climate Change, 2019, 9, 180-182.	18.8	34
8	Quantifying stochastic uncertainty in detection time of human-caused climate signals. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19821-19827.	7.1	32
9	Taking climate model evaluation to the next level. Nature Climate Change, 2019, 9, 102-110.	18.8	407
10	Detectability of the impacts of ozone-depleting substances and greenhouse gases upon stratospheric ozone accounting for nonlinearities in historical forcings. Atmospheric Chemistry and Physics, 2018, 18, 143-166.	4.9	10
11	Sources of Intermodel Spread in the Lapse Rate and Water Vapor Feedbacks. Journal of Climate, 2018, 31, 3187-3206.	3.2	35
12	Human influence on the seasonal cycle of tropospheric temperature. Science, 2018, 361, .	12.6	103
13	Large near-term projected snowpack loss over the western United States. Nature Communications, 2017, 8, 14996.	12.8	203
14	Causes of differences in model and satellite tropospheric warming rates. Nature Geoscience, 2017, 10, 478-485.	12.9	40
15	Mirrored changes in Antarctic ozone and stratospheric temperature in the late 20th versus early 21st centuries. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8940-8950.	3.3	35
16	Tropospheric Warming Over The Past Two Decades. Scientific Reports, 2017, 7, 2336.	3.3	21
17	Future loss of Arctic sea-ice cover could drive a substantial decrease in California's rainfall. Nature Communications, 2017, 8, 1947.	12.8	81
18	Comparing Tropospheric Warming in Climate Models and Satellite Data. Journal of Climate, 2017, 30, 373-392.	3.2	72

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19	The Detection and Attribution Model Intercomparison Project (DAMIP v1.0) contribution to CMIP6. Geoscientific Model Development, 2016, 9, 3685-3697.	3.6	280
20	Contribution of the Interdecadal Pacific Oscillation to twentieth-century global surface temperature trends. Nature Climate Change, 2016, 6, 1005-1008.	18.8	156
21	Making sense of the early-2000s warming slowdown. Nature Climate Change, 2016, 6, 224-228.	18.8	333
22	Observed multivariable signals of late 20th and early 21st century volcanic activity. Geophysical Research Letters, 2015, 42, 500-509.	4.0	50
23	External Influences on Modeled and Observed Cloud Trends. Journal of Climate, 2015, 28, 4820-4840.	3.2	37
24	Volcanic contribution to decadal changes in tropospheric temperature. Nature Geoscience, 2014, 7, 185-189.	12.9	364
25	Influences of the Antarctic Ozone Hole on Southern Hemispheric Summer Climate Change. Journal of Climate, 2014, 27, 6245-6264.	3.2	42
26	Identifying human influences on atmospheric temperature. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 26-33.	7.1	117
27	Human and natural influences on the changing thermal structure of the atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17235-17240.	7.1	84
28	The fingerprint of human-induced changes in the ocean's salinity and temperature fields. Geophysical Research Letters, 2012, 39, .	4.0	74
29	Attribution of Declining Western U.S. Snowpack to Human Effects. Journal of Climate, 2008, 21, 6425-6444.	3.2	217
30	Human-Induced Changes in the Hydrology of the Western United States. Science, 2008, 319, 1080-1083.	12.6	956
31	Detection and Attribution of Temperature Changes in the Mountainous Western United States. Journal of Climate, 2008, 21, 6404-6424.	3.2	109
32	Relationship between temperature and precipitable water changes over tropical oceans. Geophysical Research Letters, 2007, 34, .	4.0	67
33	Penetration of Human-Induced Warming into the World's Oceans. Science, 2005, 309, 284-287.	12.6	406
34	Stratospheric cooling and the troposphere. Nature, 2004, 432, 1-1.	27.8	13
35	Identification of anthropogenic climate change using a second-generation reanalysis. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	112
36	Use of changes in tropopause height to detect human influences on climate. Meteorologische Zeitschrift, 2003, 12, 131-136.	1.0	102

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37	An Overview of the Results of the Atmospheric Model Intercomparison Project (AMIP I). Bulletin of the American Meteorological Society, 1999, 80, 29-55.	3.3	668
38	Detecting Greenhouse-Gas-Induced Climate Change with an Optimal Fingerprint Method. Journal of Climate, 1996, 9, 2281-2306.	3.2	304
39	Ocean variability and its influence on the detectability of greenhouse warming signals. Journal of Geophysical Research, 1995, 100, 10693.	3.3	65
40	Signal-to-noise analysis of time-dependent greenhouse warming experiments. Climate Dynamics, 1994, 9, 267-285.	3.8	59