

# Julie Arblaster

## List of Publications by Citations

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95  
papers

12,036  
citations

54  
h-index

100  
g-index

100  
ext. papers

13,390  
ext. citations

7.7  
avg, IF

6.43  
L-index

#	Paper	IF	Citations
95	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 1333-1349	6.1	1320
94	Going to the Extremes. <i>Climatic Change</i> , <b>2006</b> , 79, 185-211	4.5	839
93	Model-based evidence of deep-ocean heat uptake during surface-temperature hiatus periods. <i>Nature Climate Change</i> , <b>2011</b> , 1, 360-364	21.4	533
92	Parallel climate model (PCM) control and transient simulations. <i>Climate Dynamics</i> , <b>2000</b> , 16, 755-774	4.2	511
91	How much more global warming and sea level rise?. <i>Science</i> , <b>2005</b> , 307, 1769-72	33.3	458
90	Contributions of External Forcings to Southern Annular Mode Trends. <i>Journal of Climate</i> , <b>2006</b> , 19, 2896-2905	4.4	382
89	Effects of Black Carbon Aerosols on the Indian Monsoon. <i>Journal of Climate</i> , <b>2008</b> , 21, 2869-2882	4.4	344
88	Externally Forced and Internally Generated Decadal Climate Variability Associated with the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , <b>2013</b> , 26, 7298-7310	4.4	340
87	Contributions of anthropogenic and natural forcing to recent tropopause height changes. <i>Science</i> , <b>2003</b> , 301, 479-83	33.3	332
86	Amplifying the Pacific climate system response to a small 11-year solar cycle forcing. <i>Science</i> , <b>2009</b> , 325, 1114-8	33.3	311
85	Assessing trends in observed and modelled climate extremes over Australia in relation to future projections. <i>International Journal of Climatology</i> , <b>2009</b> , 29, 417-435	3.5	279
84	Understanding future patterns of increased precipitation intensity in climate model simulations. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	237
83	ENSIP: the El Niño simulation intercomparison project. <i>Climate Dynamics</i> , <b>2001</b> , 18, 255-276	4.2	232
82	Climate Change Projections for the Twenty-First Century and Climate Change Commitment in the CCSM3. <i>Journal of Climate</i> , <b>2006</b> , 19, 2597-2616	4.4	220
81	Diurnal temperature range as an index of global climate change during the twentieth century. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	220
80	Combinations of Natural and Anthropogenic Forcings in Twentieth-Century Climate. <i>Journal of Climate</i> , <b>2004</b> , 17, 3721-3727	4.4	218
79	Solar and Greenhouse Gas Forcing and Climate Response in the Twentieth Century. <i>Journal of Climate</i> , <b>2003</b> , 16, 426-444	4.4	215

78	Climate Change Projections in CESM1(CAM5) Compared to CCSM4. <i>Journal of Climate</i> , <b>2013</b> , 26, 6287-6308	4.4	207
77	Climate System Response to External Forcings and Climate Change Projections in CCSM4. <i>Journal of Climate</i> , <b>2012</b> , 25, 3661-3683	4.4	202
76	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5029-5060	4.4	200
75	Climate model simulations of the observed early-2000s hiatus of global warming. <i>Nature Climate Change</i> , <b>2014</b> , 4, 898-902	21.4	190
74	Significant decadal-scale impact of volcanic eruptions on sea level and ocean heat content. <i>Nature</i> , <b>2005</b> , 438, 74-7	50.4	172
73	Factors that affect the amplitude of El Nino in global coupled climate models. <i>Climate Dynamics</i> , <b>2001</b> , 17, 515-526	4.2	165
72	Mapping model agreement on future climate projections. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	163
71	The Tropospheric Biennial Oscillation and Asian-Australian Monsoon Rainfall. <i>Journal of Climate</i> , <b>2002</b> , 15, 722-744	4.4	163
70	A Coupled Air-Sea Response Mechanism to Solar Forcing in the Pacific Region. <i>Journal of Climate</i> , <b>2008</b> , 21, 2883-2897	4.4	150
69	Antarctic sea-ice expansion between 2000 and 2014 driven by tropical Pacific decadal climate variability. <i>Nature Geoscience</i> , <b>2016</b> , 9, 590-595	18.3	148
68	Pattern scaling: Its strengths and limitations, and an update on the latest model simulations. <i>Climatic Change</i> , <b>2014</b> , 122, 459-471	4.5	141
67	Future climate change in the Southern Hemisphere: Competing effects of ozone and greenhouse gases. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	129
66	Mechanisms for projected future changes in south Asian monsoon precipitation. <i>Climate Dynamics</i> , <b>2003</b> , 21, 659-675	4.2	126
65	Mechanisms Contributing to the Warming Hole and the Consequent U.S. East-West Differential of Heat Extremes. <i>Journal of Climate</i> , <b>2012</b> , 25, 6394-6408	4.4	124
64	Response of the NCAR Climate System Model to Increased CO <sub>2</sub> and the Role of Physical Processes. <i>Journal of Climate</i> , <b>2000</b> , 13, 1879-1898	4.4	112
63	Sustained ocean changes contributed to sudden Antarctic sea ice retreat in late 2016. <i>Nature Communications</i> , <b>2019</b> , 10, 14	17.4	111
62	Coupled Ocean-Atmosphere Dynamical Processes in the Tropical Indian and Pacific Oceans and the TBO. <i>Journal of Climate</i> , <b>2003</b> , 16, 2138-2158	4.4	110
61	The Asian Monsoon, the Tropospheric Biennial Oscillation, and the Indian Ocean Zonal Mode in the NCAR CSM*. <i>Journal of Climate</i> , <b>2003</b> , 16, 1617-1642	4.4	103

60	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 26-33	11.5	102
59	The Asian-Australian Monsoon and El Niño-Southern Oscillation in the NCAR Climate System Model*. <i>Journal of Climate</i> , <b>1998</b> , 11, 1356-1385	4.4	100
58	Relative outcomes of climate change mitigation related to global temperature versus sea-level rise. <i>Nature Climate Change</i> , <b>2012</b> , 2, 576-580	21.4	88
57	Interdecadal modulation of Australian rainfall. <i>Climate Dynamics</i> , <b>2002</b> , 18, 519-531	4.2	88
56	Historical and projected trends in temperature and precipitation extremes in Australia in observations and CMIP5. <i>Weather and Climate Extremes</i> , <b>2017</b> , 15, 34-56	6	85
55	A decadal solar effect in the tropics in July-August. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2004</b> , 66, 1767-1778	2	84
54	Detection of a human influence on North American climate. <i>Science</i> , <b>2003</b> , 302, 1200-3	33.3	82
53	Monsoon Regimes in the CCSM3. <i>Journal of Climate</i> , <b>2006</b> , 19, 2482-2495	4.4	73
52	Indian Monsoon GCM Sensitivity Experiments Testing Tropospheric Biennial Oscillation Transition Conditions. <i>Journal of Climate</i> , <b>2002</b> , 15, 923-944	4.4	73
51	Nonlinear precipitation response to El Niño and global warming in the Indo-Pacific. <i>Climate Dynamics</i> , <b>2014</b> , 42, 1837-1856	4.2	72
50	Contributions of natural and anthropogenic forcing to changes in temperature extremes over the United States. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	72
49	Attribution of the Late-Twentieth-Century Rainfall Decline in Southwest Australia. <i>Journal of Climate</i> , <b>2006</b> , 19, 2046-2062	4.4	70
48	Ensemble Simulation of Twenty-First Century Climate Changes: Business-as-Usual versus CO2Stabilization. <i>Bulletin of the American Meteorological Society</i> , <b>2001</b> , 82, 2377-2388	6.1	66
47	A Lagged Warm Event-like Response to Peaks in Solar Forcing in the Pacific Region. <i>Journal of Climate</i> , <b>2009</b> , 22, 3647-3660	4.4	61
46	Compounding tropical and stratospheric forcing of the record low Antarctic sea-ice in 2016. <i>Nature Communications</i> , <b>2019</b> , 10, 13	17.4	61
45	Tropical Pacific SST Drivers of Recent Antarctic Sea Ice Trends. <i>Journal of Climate</i> , <b>2016</b> , 29, 8931-8948	4.4	59
44	The impact of the El Niño-Southern Oscillation on maximum temperature extremes. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	58
43	Insights From CMIP6 for Australia's Future Climate. <i>Earth's Future</i> , <b>2020</b> , 8, e2019EF001469	7.9	57

42	Influence of satellite data uncertainties on the detection of externally forced climate change. <i>Science</i> , <b>2003</b> , 300, 1280-4	33.3	56
41	Australian hot and dry extremes induced by weakenings of the stratospheric polar vortex. <i>Nature Geoscience</i> , <b>2019</b> , 12, 896-901	18.3	52
40	The impact of the Southern Annular Mode on future changes in Southern Hemisphere rainfall. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7160-7167	4.9	52
39	Monsoon Regimes and Processes in CCSM4. Part I: The Asian-Australian Monsoon. <i>Journal of Climate</i> , <b>2012</b> , 25, 2583-2608	4.4	51
38	The Tropospheric Biennial Oscillation and Indian Monsoon rainfall. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1731-1734	4.9	45
37	A review of past and projected changes in Australia's rainfall. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , <b>2019</b> , 10, e577	8.4	43
36	Decadal Variability of Asian-Australian Monsoon-NSO-BO Relationships. <i>Journal of Climate</i> , <b>2011</b> , 24, 4925-4940	4.4	43
35	Simulation of Indian summer monsoon rainfall and its intraseasonal variability in the NCAR climate system model. <i>Regional Environmental Change</i> , <b>2000</b> , 1, 163-179	4.3	41
34	Factors Affecting Climate Sensitivity in Global Coupled Models. <i>Journal of Climate</i> , <b>2004</b> , 17, 1584-1596	4.4	40
33	Disappearance of the southeast U.S. "warming hole" with the late 1990s transition of the Interdecadal Pacific Oscillation. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5564-5570	4.9	38
32	Tropical Decadal Variability and the Rate of Arctic Sea Ice Decrease. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,326	4.9	36
31	Causes and predictability of the record wet east Australian spring 2010. <i>Climate Dynamics</i> , <b>2014</b> , 42, 1155-1174	4.4	34
30	Monsoon Regimes and Processes in CCSM4. Part II: African and American Monsoon Systems. <i>Journal of Climate</i> , <b>2012</b> , 25, 2609-2621	4.4	34
29	Global scale decadal climate variability. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3983-3986	4.9	32
28	Could a future "Grand Solar Minimum" like the Maunder Minimum stop global warming?. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1789-1793	4.9	31
27	Anthropogenic Forcing and Decadal Climate Variability in Sensitivity Experiments of Twentieth- and Twenty-First-Century Climate. <i>Journal of Climate</i> , <b>2000</b> , 13, 3728-3744	4.4	30
26	Land cover change as an additional forcing to explain the rainfall decline in the south west of Australia. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	28
25	Geographic, Demographic, and Temporal Variations in the Association between Heat Exposure and Hospitalization in Brazil: A Nationwide Study between 2000 and 2015. <i>Environmental Health Perspectives</i> , <b>2019</b> , 127, 17001	8.4	28

24	Interaction of the recent 50 year SST trend and La Niña 2010: amplification of the Southern Annular Mode and Australian springtime rainfall. <i>Climate Dynamics</i> , <b>2016</b> , 47, 2273-2291	4.2	27
23	Atlantic and Pacific tropics connected by mutually interactive decadal-timescale processes. <i>Nature Geoscience</i> , <b>2021</b> , 14, 36-42	18.3	27
22	Effects of Model Resolution, Physics, and Coupling on Southern Hemisphere Storm Tracks in CESM1.3. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 12408-12416	4.9	24
21	Relating the strength of the tropospheric biennial oscillation (TBO) to the phase of the Interdecadal Pacific Oscillation (IPO). <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	21
20	On the Linearity of Local and Regional Temperature Changes from 1.5°C to 2°C of Global Warming. <i>Journal of Climate</i> , <b>2018</b> , 31, 7495-7514	4.4	21
19	Contributors to the Record High Temperatures Across Australia in Late Spring 2014. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, S149-S153	6.1	16
18	Uncertainties in Drought From Index and Data Selection. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031946	4.4	16
17	Role of Tropical Variability in Driving Decadal Shifts in the Southern Hemisphere Summertime Eddy-Driven Jet. <i>Journal of Climate</i> , <b>2020</b> , 33, 5445-5463	4.4	11
16	Mechanisms causing east Australian spring rainfall differences between three strong El Niño events. <i>Climate Dynamics</i> , <b>2019</b> , 53, 3641-3659	4.2	10
15	A joint role for forced and internally-driven variability in the decadal modulation of global warming. <i>Nature Communications</i> , <b>2020</b> , 11, 3827	17.4	10
14	Evaluating the Relationship between Interannual Variations in the Antarctic Ozone Hole and Southern Hemisphere Surface Climate in Chemistry-Climate Models. <i>Journal of Climate</i> , <b>2019</b> , 32, 3131-3151	4.4	9
13	The role of the Southern Hemisphere semiannual oscillation in the development of a precursor to central and eastern Pacific Southern Oscillation warm events. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 6959-6965	4.9	8
12	Intraseasonal, Seasonal, and Interannual Characteristics of Regional Monsoon Simulations in CESM2. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001962	7.1	7
11	Sea-ice effects on climate model sensitivity and low frequency variability. <i>Climate Dynamics</i> , <b>2000</b> , 16, 257-271	4.2	7
10	Characteristics of Future Warmer Base States in CESM2. <i>Earth and Space Science</i> , <b>2020</b> , 7, e2020EA001296	3.1	7
9	What Caused the Record-Breaking Heat Across Australia in October 2015?. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, S122-S126	6.1	7
8	On potential causes for an under-estimated global ocean heat content trend in CMIP3 models. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	4
7	Tropical and Extratropical Influences on the Variability of the Southern Hemisphere Wintertime Subtropical Jet. <i>Journal of Climate</i> , <b>2021</b> , 34, 4009-4022	4.4	3

6	Insights from CMIP6 for Australia's future climate		2
5	Mechanisms of an Intensified Hadley Circulation in Response to Solar Forcing in the Twentieth Century. <i>Advances in Global Change Research</i> , <b>2004</b> , 489-511	1.2	2
4	Sea ice and climate in 20th- and 21st-century simulations with a global atmosphere-ocean-ice model. <i>Annals of Glaciology</i> , <b>2001</b> , 33, 521-524	2.5	1
3	Exploring atmospheric circulation leading to three anomalous Australian spring heat events. <i>Climate Dynamics</i> , <b>2021</b> , 56, 2181-2198	4.2	1
2	The Role of Coupled Feedbacks in the Decadal Variability of the Southern Hemisphere Eddy-Driven Jet. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035023	4.4	
1	Tropical influence on heat-generating atmospheric circulation over Australia strengthens through spring. <i>Weather and Climate Dynamics</i> , <b>2022</b> , 3, 413-428	3.3	