Robert J Allen

List of Publications by Year
in descending order

46	2,322	201674	243625
papers	citations	27 h-index	44 g-index

60	60	60	3005
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence for climate change in the satellite cloud record. Nature, 2016, 536, 72-75.	27.8	264
2	Recent Northern Hemisphere tropical expansion primarily driven by black carbon and tropospheric ozone. Nature, 2012, 485, 350-354.	27.8	216
3	Influence of anthropogenic aerosols and the Pacific Decadal Oscillation on tropical belt width. Nature Geoscience, 2014, 7, 270-274.	12.9	144
4	Trends in Twentieth-Century Temperature Extremes across the United States. Journal of Climate, 2002, 15, 3188-3205.	3.2	138
5	Robust Tropospheric Warming Revealed by Iteratively Homogenized Radiosonde Data. Journal of Climate, 2008, 21, 5336-5352.	3.2	108
6	Warming maximum in the tropical upper troposphere deduced from thermal winds. Nature Geoscience, 2008, 1, 399-403.	12.9	105
7	Historical and future changes in air pollutants from CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 14547-14579.	4.9	105
8	Recent Tropical Expansion: Natural Variability or Forced Response?. Journal of Climate, 2019, 32, 1551-1571.	3.2	87
9	Interhemispheric Aerosol Radiative Forcing and Tropical Precipitation Shifts during the Late Twentieth Century. Journal of Climate, 2015, 28, 8219-8246.	3.2	81
10	An increase in aerosol burden and radiative effects in a warmer world. Nature Climate Change, 2016, 6, 269-274.	18.8	79
11	The impact of natural versus anthropogenic aerosols on atmospheric circulation in the Community Atmosphere Model. Climate Dynamics, 2011, 36, 1959-1978.	3.8	77
12	Forcing of the Arctic Oscillation by Eurasian Snow Cover. Journal of Climate, 2011, 24, 6528-6539.	3.2	68
13	The Role of Natural Climate Variability in Recent Tropical Expansion. Journal of Climate, 2017, 30, 6329-6350.	3.2	66
14	El NiÃ±o-like teleconnection increases California precipitation in response to warming. Nature Communications, 2017, 8, 16055.	12.8	48
15	Areal Reduction Factors for Two Eastern United States Regions with High Rain-Gauge Density. Journal of Hydrologic Engineering - ASCE, 2005, 10, 327-335.	1.9	47
16	The vertical distribution of black carbon in CMIP5 models: Comparison to observations and the importance of convective transport. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4808-4835.	3.3	47
17	Considerations for the use of radar-derived precipitation estimates in determining return intervals for extreme areal precipitation amounts. Journal of Hydrology, 2005, 315, 203-219.	5.4	46
18	The Modification of Sea Surface Temperature Anomaly Linear Damping Time Scales by Stratocumulus Clouds. Journal of Climate, 2013, 26, 3619-3630.	3.2	46

#	Article	IF	Citations
19	Future aerosol reductions and widening of the northern tropical belt. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6765-6786.	3.3	43
20	Natural variations of tropical width and recent trends. Geophysical Research Letters, 2017, 44, 3825-3832.	4.0	43
21	A 21st century northward tropical precipitation shift caused by future anthropogenic aerosol reductions. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9087-9102.	3.3	36
22	Estimating missing daily temperature extremes using an optimized regression approach. International Journal of Climatology, 2001, 21, 1305-1319.	3.5	35
23	Observationally constrained aerosolâ€“cloud semi-direct effects. Npj Climate and Atmospheric Science, 2019, 2, .	6.8	35
24	Dependence of regional ocean heat uptake on anthropogenic warming scenarios. Science Advances, 2020, 6, .	10.3	34
25	Tropical Widening: From Global Variations to Regional Impacts. Bulletin of the American Meteorological Society, 2020, 101, E897-E904.	3.3	31
26	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. Atmospheric Chemistry and Physics, 2020, 20, 9641-9663.	4.9	30
27	Impact of Saharan dust on North Atlantic marine stratocumulus clouds: importance of the semidirect effect. Atmospheric Chemistry and Physics, 2017, 17, 6305-6322.	4.9	29
28	Anthropogenic aerosol forcing of the Atlantic meridional overturning circulation and the associated mechanisms in CMIP6 models. Atmospheric Chemistry and Physics, 2021, 21, 5821-5846.	4.9	25
29	21st century California drought risk linked to model fidelity of the El NiÃ±o teleconnection. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	19
30	Enhanced landâ€“sea warming contrast elevates aerosol pollution in a warmer world. Nature Climate Change, 2019, 9, 300-305.	18.8	19
31	A Method to Adjust Long-Term Temperature Extreme Series for Nonclimatic Inhomogeneities. Journal of Climate, 2000, 13, 3680-3695.	3.2	18
32	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. Atmospheric Chemistry and Physics, 2020, 20, 8381-8404.	4.9	18
33	Utility of Radiosonde Wind Data in Representing Climatological Variations of Tropospheric Temperature and Baroclinicity in the Western Tropical Pacific. Journal of Climate, 2007, 20, 5229-5243.	3.2	17
34	Strengthening of the Walker Circulation in recent decades and the role of natural sea surface temperature variability. Environmental Research Communications, 2019, 1, 021003.	2.3	14
35	Significant climate benefits from near-term climate forcer mitigation in spite of aerosol reductions. Environmental Research Letters, 0, , .	5.2	14
36	Understanding influences of convective transport and removal processes on aerosol vertical distribution. Geophysical Research Letters, 2015, 42, 10,438.	4.0	11

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37	Regional Features of Long-Term Exposure to PM2.5 Air Quality over Asia under SSP Scenarios Based on CMIP6 Models. International Journal of Environmental Research and Public Health, 2021, 18, 6817.	2.6	10
38	A Homogenized Historical Temperature Extreme Dataset for the United States. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1267-1284.	1.3	8
39	An Implicit Air Quality Bias Due to the State of Pristine Aerosol. Earth's Future, 2021, 9, e2021EF001979.	6.3	8
40	Importance of the El NiÃ±o Teleconnection to the 21st Century California Wintertime Extreme Precipitation Increase. Geophysical Research Letters, 2018, 45, 10,648.	4.0	6
41	A La NiÃ±aâ€Like Climate Response to South African Biomass Burning Aerosol in CESM Simulations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031832.	3.3	6
42	Tropical Belt Width Proportionately More Sensitive to Aerosols Than Greenhouse Gases. Geophysical Research Letters, 2020, 47, e2019GL086425.	4.0	6
43	Air quality improvements are projected to weaken the Atlantic meridional overturning circulation through radiative forcing effects. Communications Earth & Environment, 2022, 3, .	6.8	5
44	The Semidirect Effect of Combined Dust and Sea Salt Aerosols in a Multimodel Analysis. Geophysical Research Letters, 2019, 46, 10512-10521.	4.0	4
45	Assessing California Wintertime Precipitation Responses to Various Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031736.	3.3	4
46	Anthropogenic aerosol impacts on Pacific Coast precipitation in CMIP6 models. , 2022, 1, 015005.		3