

L V Alexander

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

143
papers

24,716
citations

56
h-index

153
g-index

153
ext. papers

29,313
ext. citations

5.3
avg, IF

7.01
L-index

#	Paper	IF	Citations
143	Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. <i>Journal of Geophysical Research</i> , 2003 , 108,		6770
142	Global observed changes in daily climate extremes of temperature and precipitation. <i>Journal of Geophysical Research</i> , 2006 , 111,		2250
141	Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. <i>International Journal of Climatology</i> , 2002 , 22, 1441-1453	3.5	1078
140	Indices for monitoring changes in extremes based on daily temperature and precipitation data. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011 , 2, 851-870	8.4	933
139	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2098-2118	4.4	791
138	Changes in Climate Extremes and their Impacts on the Natural Physical Environment 109-230		709
137	Global Increasing Trends in Annual Maximum Daily Precipitation. <i>Journal of Climate</i> , 2013 , 26, 3904-3918	4.4	665
136	More extreme precipitation in the world's dry and wet regions. <i>Nature Climate Change</i> , 2016 , 6, 508-513	21.4	652
135	Future changes to the intensity and frequency of short-duration extreme rainfall. <i>Reviews of Geophysics</i> , 2014 , 52, 522-555	23.1	599
134	Longer and more frequent marine heatwaves over the past century. <i>Nature Communications</i> , 2018 , 9, 1324	17.4	544
133	A hierarchical approach to defining marine heatwaves. <i>Progress in Oceanography</i> , 2016 , 141, 227-238	3.8	495
132	On the Measurement of Heat Waves. <i>Journal of Climate</i> , 2013 , 26, 4500-4517	4.4	476
131	Increasing frequency, intensity and duration of observed global heatwaves and warm spells. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	456
130	Marine heatwaves threaten global biodiversity and the provision of ecosystem services. <i>Nature Climate Change</i> , 2019 , 9, 306-312	21.4	425
129	Trends in Middle East climate extreme indices from 1950 to 2003. <i>Journal of Geophysical Research</i> , 2005 , 110,		339
128	Indices for daily temperature and precipitation extremes in Europe analyzed for the period 1901-2000. <i>Journal of Geophysical Research</i> , 2006 , 111,		293
127	Assessing trends in observed and modelled climate extremes over Australia in relation to future projections. <i>International Journal of Climatology</i> , 2009 , 29, 417-435	3.5	279

126	Comparison of Modeled and Observed Trends in Indices of Daily Climate Extremes. <i>Journal of Climate</i> , 2003 , 16, 3560-3571	4.4	277
125	Large-scale changes in observed daily maximum and minimum temperatures: Creation and analysis of a new gridded data set. <i>Journal of Geophysical Research</i> , 2006 , 111,		261
124	Global Land-Based Datasets for Monitoring Climatic Extremes. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 997-1006	6.1	242
123	European Climate Extremes and the North Atlantic Oscillation. <i>Journal of Climate</i> , 2008 , 21, 72-83	4.4	212
122	Adjusting for sampling density in grid box land and ocean surface temperature time series. <i>Journal of Geophysical Research</i> , 2001 , 106, 3371-3380		212
121	The shifting probability distribution of global daytime and night-time temperatures. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	208
120	Explaining Extreme Events of 2012 from a Climate Perspective. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, S1-S74	6.1	198
119	Global observed long-term changes in temperature and precipitation extremes: A review of progress and limitations in IPCC assessments and beyond. <i>Weather and Climate Extremes</i> , 2016 , 11, 4-16 ⁶		191
118	Recent changes in climate extremes in the Caribbean region. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 16-1-ACL 16-9		188
117	Warming and wetting signals emerging from analysis of changes in climate extreme indices over South America. <i>Global and Planetary Change</i> , 2013 , 100, 295-307	4.2	170
116	Future increases in extreme precipitation exceed observed scaling rates. <i>Nature Climate Change</i> , 2017 , 7, 128-132	21.4	157
115	The effects of climate extremes on global agricultural yields. <i>Environmental Research Letters</i> , 2019 , 14, 054010	6.2	154
114	A global assessment of marine heatwaves and their drivers. <i>Nature Communications</i> , 2019 , 10, 2624	17.4	145
113	Simulations of time-coincident, co-located measurements from ENVISAT-1 instruments for the characterization of tropospheric aerosols: a sensitivity study including cloud contamination effects. <i>Atmospheric Science Letters</i> , 2000 , 1, 142-150	2.4	143
112	Changes in temperature and precipitation extremes over the Indo-Pacific region from 1971 to 2005. <i>International Journal of Climatology</i> , 2011 , 31, 791-801	3.5	134
111	Projected Marine Heatwaves in the 21st Century and the Potential for Ecological Impact. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	131
110	Consistency of Temperature and Precipitation Extremes across Various Global Gridded In Situ and Reanalysis Datasets. <i>Journal of Climate</i> , 2014 , 27, 5019-5035	4.4	118
109	Understanding, modeling and predicting weather and climate extremes: Challenges and opportunities. <i>Weather and Climate Extremes</i> , 2017 , 18, 65-74	6	106

108	The efficacy of using gridded data to examine extreme rainfall characteristics: a case study for Australia. <i>International Journal of Climatology</i> , 2013 , 33, 2376-2387	3.5	106
107	Historical and projected trends in temperature and precipitation extremes in Australia in observations and CMIP5. <i>Weather and Climate Extremes</i> , 2017 , 15, 34-56	6	85
106	How much does it rain over land?. <i>Geophysical Research Letters</i> , 2016 , 43, 341-348	4.9	85
105	The timing of anthropogenic emergence in simulated climate extremes. <i>Environmental Research Letters</i> , 2015 , 10, 094015	6.2	81
104	Climate model simulated changes in temperature extremes due to land cover change. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		76
103	Recent observed changes in severe storms over the United Kingdom and Iceland. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	76
102	Temperature and precipitation extremes in century-long gridded observations, reanalyses, and atmospheric model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,174	4.4	73
101	Reanalysis suggests long-term upward trends in European storminess since 1871. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	73
100	Extreme Rainfall Variability in Australia: Patterns, Drivers, and Predictability*. <i>Journal of Climate</i> , 2014 , 27, 6035-6050	4.4	71
99	Large uncertainties in observed daily precipitation extremes over land. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 668-681	4.4	69
98	Effects of land cover change on temperature and rainfall extremes in multi-model ensemble simulations. <i>Earth System Dynamics</i> , 2012 , 3, 213-231	4.8	69
97	Multi-dataset comparison of gridded observed temperature and precipitation extremes over China. <i>International Journal of Climatology</i> , 2015 , 35, 2809-2827	3.5	67
96	Asymmetry in the response of eastern Australia extreme rainfall to low-frequency Pacific variability. <i>Geophysical Research Letters</i> , 2013 , 40, 2271-2277	4.9	65
95	The unprecedented coupled ocean-atmosphere summer heatwave in the New Zealand region 2017/18: drivers, mechanisms and impacts. <i>Environmental Research Letters</i> , 2019 , 14, 044023	6.2	64
94	Influence of sea surface temperature variability on global temperature and precipitation extremes. <i>Journal of Geophysical Research</i> , 2009 , 114,		64
93	Climate Extremes: Challenges in Estimating and Understanding Recent Changes in the Frequency and Intensity of Extreme Climate and Weather Events 2013 , 339-389		62
92	Fluctuations in autumn-winter severe storms over the British Isles: 1920 to present. <i>International Journal of Climatology</i> , 2009 , 29, 357-371	3.5	58
91	The impact of the El Niño-Southern Oscillation on maximum temperature extremes. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	58

90	Insights From CMIP6 for Australia's Future Climate. <i>Earth's Future</i> , 2020 , 8, e2019EF001469	7.9	57
89	On the use of self-organizing maps for studying climate extremes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3891-3903	4.4	56
88	Attribution of extreme temperature changes during 1951-2010. <i>Climate Dynamics</i> , 2016 , 46, 1769-1782	4.2	55
87	Natural hazards in Australia: heatwaves. <i>Climatic Change</i> , 2016 , 139, 101-114	4.5	55
86	Development of an Updated Global Land In Situ-Based Data Set of Temperature and Precipitation Extremes: HadEX3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032263	4.4	54
85	Has the climate become more variable or extreme? Progress 1992-2006. <i>Progress in Physical Geography</i> , 2007 , 31, 77-87	3.5	51
84	The influence of soil moisture deficits on Australian heatwaves. <i>Environmental Research Letters</i> , 2016 , 11, 064003	6.2	45
83	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. <i>Advances in Science and Research</i> , 15, 117-126		44
82	Reassessing changes in diurnal temperature range: Intercomparison and evaluation of existing global data set estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 5138-5158	4.4	44
81	Debate heating up over changes in climate variability. <i>Environmental Research Letters</i> , 2013 , 8, 041001	6.2	42
80	Comparing regional precipitation and temperature extremes in climate model and reanalysis products. <i>Weather and Climate Extremes</i> , 2016 , 13, 35-43	6	41
79	Comparison of observed and multimodeled trends in annual extremes of temperature and precipitation. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	41
78	FROGS: a daily 1° x 1° gridded precipitation database of rain gauge, satellite and reanalysis products. <i>Earth System Science Data</i> , 2019 , 11, 1017-1035	10.5	40
77	Precipitation From Persistent Extremes is Increasing in Most Regions and Globally. <i>Geophysical Research Letters</i> , 2019 , 46, 6041-6049	4.9	39
76	How Well Do Gridded Datasets of Observed Daily Precipitation Compare over Australia?. <i>Advances in Meteorology</i> , 2015 , 2015, 1-15	1.7	39
75	GSDR: A Global Sub-Daily Rainfall Dataset. <i>Journal of Climate</i> , 2019 , 32, 4715-4729	4.4	38
74	Systematic investigation of gridding-related scaling effects on annual statistics of daily temperature and precipitation maxima: A case study for south-east Australia. <i>Weather and Climate Extremes</i> , 2015 , 9, 6-16	6	38
73	An assessment of climate change impacts and adaptation for the Torres Strait Islands, Australia. <i>Climatic Change</i> , 2010 , 102, 405-433	4.5	38

72	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032184	4.4	37
71	Multi-model ensemble projections of future extreme temperature change using a statistical downscaling method in south eastern Australia. <i>Climatic Change</i> , 2016 , 138, 85-98	4.5	37
70	Rainfall Estimates on a Gridded Network (REGEN) a global land-based gridded dataset of daily precipitation from 1950 to 2016. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 919-943	5.5	36
69	Intercomparison of annual precipitation indices and extremes over global land areas from in situ, space-based and reanalysis products. <i>Environmental Research Letters</i> , 2020 , 15, 055002	6.2	35
68	On the use of indices to study extreme precipitation on sub-daily and daily timescales. <i>Environmental Research Letters</i> , 2019 , 14, 125008	6.2	34
67	Drivers and impacts of the most extreme marine heatwaves events. <i>Scientific Reports</i> , 2020 , 10, 19359	4.9	34
66	An updated assessment of trends and variability in total and extreme rainfall in the western Pacific. <i>International Journal of Climatology</i> , 2014 , 34, 2775-2791	3.5	33
65	A New Daily Pressure Dataset for Australia and Its Application to the Assessment of Changes in Synoptic Patterns during the Last Century. <i>Journal of Climate</i> , 2010 , 23, 1111-1126	4.4	33
64	Extraordinary heat during the 1930s US Dust Bowl and associated large-scale conditions. <i>Climate Dynamics</i> , 2016 , 46, 413-426	4.2	32
63	Data Rescue in the Southeast Asia and South Pacific Region: Challenges and Opportunities. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1483-1490	6.1	31
62	Impact of Identification Method on the Inferred Characteristics and Variability of Australian East Coast Lows. <i>Monthly Weather Review</i> , 2015 , 143, 864-877	2.4	29
61	The ENSO-Australian rainfall teleconnection in reanalysis and CMIP5. <i>Climate Dynamics</i> , 2015 , 44, 2623-2635	6.3	28
60	Greater increases in temperature extremes in low versus high income countries. <i>Environmental Research Letters</i> , 2017 , 12, 034007	6.2	27
59	A Multiregion Assessment of Observed Changes in the Areal Extent of Temperature and Precipitation Extremes. <i>Journal of Climate</i> , 2015 , 28, 9206-9220	4.4	27
58	Investigating uncertainties in global gridded datasets of climate extremes. <i>Climate of the Past</i> , 2014 , 10, 2171-2199	3.9	27
57	Evaluating synoptic systems in the CMIP5 climate models over the Australian region. <i>Climate Dynamics</i> , 2016 , 47, 2235-2251	4.2	26
56	Effect of ambient temperature on Australian northern territory public hospital admissions for cardiovascular disease among indigenous and non-indigenous populations. <i>International Journal of Environmental Research and Public Health</i> , 2014 , 11, 1942-59	4.6	26
55	Resolution Sensitivity of Cyclone Climatology over Eastern Australia Using Six Reanalysis Products*. <i>Journal of Climate</i> , 2015 , 28, 9530-9549	4.4	25

54	A framework for benchmarking of homogenisation algorithm performance on the global scale. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2014 , 3, 187-200	1.5	25
53	Diverse estimates of annual maxima daily precipitation in 22 state-of-the-art quasi-global land observation datasets. <i>Environmental Research Letters</i> , 2020 , 15, 035005	6.2	25
52	Projected changes in east Australian midlatitude cyclones during the 21st century. <i>Geophysical Research Letters</i> , 2016 , 43, 334-340	4.9	25
51	Assessing the Robustness of Future Extreme Precipitation Intensification in the CMIP5 Ensemble. <i>Journal of Climate</i> , 2018 , 31, 6505-6525	4.4	24
50	Climate Assessment for 2001. <i>Bulletin of the American Meteorological Society</i> , 2002 , 83, 938-938	6.1	24
49	Trends and variability of temperature extremes in the tropical Western Pacific. <i>International Journal of Climatology</i> , 2014 , 34, 2585-2603	3.5	23
48	Recent Changes in Mean and Extreme Temperature and Precipitation in the Western Pacific Islands. <i>Journal of Climate</i> , 2019 , 32, 4919-4941	4.4	22
47	Understanding the role of sea surface temperature-forcing for variability in global temperature and precipitation extremes. <i>Weather and Climate Extremes</i> , 2018 , 21, 1-9	6	22
46	Global and regional climate in 2003. <i>Weather</i> , 2004 , 59, 145-152	0.9	19
45	Temperature and Humidity Effects on Hospital Morbidity in Darwin, Australia. <i>Annals of Global Health</i> , 2015 , 81, 333-41	3.3	18
44	The Sensitivity of Daily Temperature Variability and Extremes to Dataset Choice. <i>Journal of Climate</i> , 2018 , 31, 1337-1359	4.4	18
43	Climate Assessment for 2000. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 1304-1304	6.1	17
42	Comparing Australian heat waves in the CMIP5 models through cluster analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3266-3281	4.4	16
41	Intensification of the Daily Wet Day Rainfall Distribution Across Australia. <i>Geophysical Research Letters</i> , 2018 , 45, 8568-8576	4.9	16
40	Understanding the spatio-temporal influence of climate variability on Australian heatwaves. <i>International Journal of Climatology</i> , 2017 , 37, 3963-3975	3.5	15
39	Forest plantations, water availability, and regional climate change: controversies surrounding <i>Acacia mearnsii</i> plantations in the upper Palnis Hills, southern India. <i>Regional Environmental Change</i> , 2010 , 10, 103-117	4.3	15
38	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. <i>Australian Meteorological Magazine</i> , 2016 , 66, 108-124		14
37	On the nonlinearity of spatial scales in extreme weather attribution statements. <i>Climate Dynamics</i> , 2018 , 50, 2739-2752	4.2	13

36	A Multiregion Model Evaluation and Attribution Study of Historical Changes in the Area Affected by Temperature and Precipitation Extremes. <i>Journal of Climate</i> , 2016 , 29, 8285-8299	4.4	13
35	Rainfall Estimates on a Gridded Network (REGEN) A global land-based gridded dataset of daily precipitation from 1950-2013		13
34	The influence of local sea surface temperatures on Australian east coast cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,352	4.4	12
33	Australian east coast mid-latitude cyclones in the 20th Century Reanalysis ensemble. <i>International Journal of Climatology</i> , 2017 , 37, 2187-2192	3.5	12
32	Significant decline in storminess over southeast Australia since the late 19th century. <i>Australian Meteorological Magazine</i> , 2011 , 61, 23-30		12
31	Zonal winds and southeast Australian rainfall in global and regional climate models. <i>Climate Dynamics</i> , 2016 , 46, 123-133	4.2	10
30	Changes in relative fit of human heat stress indices to cardiovascular, respiratory, and renal hospitalizations across five Australian urban populations. <i>International Journal of Biometeorology</i> , 2018 , 62, 423-432	3.7	10
29	Temperature and precipitation extremes in the second half of the twentieth century from numerical modeling results and observational data. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2009 , 45, 284-293	1	10
28	Enhancing Middle East Climate Change Monitoring and Indexes. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 1249-1254	6.1	10
27	Variations in severe storms over China. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	10
26	Changes in Observed Daily Precipitation over Global Land Areas since 1950. <i>Journal of Climate</i> , 2021 , 34, 3-19	4.4	10
25	The representation of health-relevant heatwave characteristics in a Regional Climate Model ensemble for New South Wales and the Australian Capital Territory, Australia. <i>International Journal of Climatology</i> , 2017 , 37, 1195-1210	3.5	9
24	Comparative evaluation of human heat stress indices on selected hospital admissions in Sydney, Australia. <i>Australian and New Zealand Journal of Public Health</i> , 2017 , 41, 381-387	2.3	9
23	Differential Effects of Temperature Extremes on Hospital Admission Rates for Respiratory Disease between Indigenous and Non-Indigenous Australians in the Northern Territory. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 15352-65	4.6	9
22	A New Daily Observational Record from Grytviken, South Georgia: Exploring Twentieth-Century Extremes in the South Atlantic. <i>Journal of Climate</i> , 2018 , 31, 1743-1755	4.4	9
21	Severe storms inferred from 150 years of sub-daily pressure observations along Victoria's "Shipwreck Coast". <i>Australian Meteorological Magazine</i> , 2009 , 58, 129-133		8
20	An investigation of some unexpected frost day increases in southern Australia. <i>Australian Meteorological Magazine</i> , 2014 , 64, 261-271		8
19	Changes in daily temperature extremes relative to the mean in Coupled Model Intercomparison Project Phase 5 models and observations. <i>International Journal of Climatology</i> , 2019 , 39, 5273-5291	3.5	7

18	Exploring trends in wet-season precipitation and drought indices in wet, humid and dry regions. <i>Environmental Research Letters</i> , 2019 , 14, 115002	6.2	7
17	Climate and Weather Extremes 2012 , 253-288		7
16	Synoptic influences on seasonal, interannual and decadal temperature variations in Melbourne, Australia. <i>International Journal of Climatology</i> , 2009 , 30, n/a-n/a	3.5	7
15	Comments on Temperature-extreme precipitation scaling: A two-way causality? <i>International Journal of Climatology</i> , 2018 , 38, 4661-4663	3.5	6
14	The influence of topography on midlatitude cyclones on Australia's east coast. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9173-9184	4.4	5
13	Global and regional climate in 2001. <i>Weather</i> , 2002 , 57, 328-340	0.9	5
12	Global and regional climate in 2000. <i>Weather</i> , 2001 , 56, 255-267	0.9	5
11	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. <i>Climate Dynamics</i> , 2019 , 53, 3711-3729	4.2	4
10	Amplified warming of seasonal cold extremes relative to the mean in the Northern Hemisphere extratropics. <i>Earth System Dynamics</i> , 2020 , 11, 97-111	4.8	4
9	No significant difference between Australian heat wave impacts of Modoki and eastern Pacific El Niño. <i>Geophysical Research Letters</i> , 2017 , 44, 5150-5157	4.9	3
8	Effects of land cover change on temperature and rainfall extremes in multi-model ensemble simulations 2012 ,		3
7	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2016 , 66, 108-124	2.1	3
6	On the Robustness of Annual Daily Precipitation Maxima Estimates Over Monsoon Asia. <i>Frontiers in Climate</i> , 2020 , 2,	7.1	2
5	Investigating uncertainties in global gridded datasets of climate extremes		2
4	A Framework to Determine the Limits of Achievable Skill for Interannual to Decadal Climate Predictions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2882-2896	4.4	2
3	Global and regional climate in 2002. <i>Weather</i> , 2003 , 58, 324-336	0.9	1
2	The drivers of extreme rainfall event timing in Australia. <i>International Journal of Climatology</i> ,	3.5	1
1	Understanding the Changing Nature of Marine Cold-Spells. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1

