L V Alexander

List of Publications by Year
in descending order

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145 papers	34,535 citations	14614 66 h-index	9553 142 g-index
153 all docs	153 docs citations	153 times ranked	24514 citing authors

#	Article	IF	Citations
1	Global analyses of sea surface temperature, sea ice, and night marine air temperature since the late nineteenth century. Journal of Geophysical Research, 2003, 108, .	3.3	8,242
2	Global observed changes in daily climate extremes of temperature and precipitation. Journal of Geophysical Research, 2006, 111, .	3.3	2,884
3	Indices for monitoring changes in extremes based on daily temperature and precipitation data. Wiley Interdisciplinary Reviews: Climate Change, 2011, 2, 851-870.	3.6	1,325
4	Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. International Journal of Climatology, 2002, 22, 1441-1453.	1.5	1,318
5	A hierarchical approach to defining marine heatwaves. Progress in Oceanography, 2016, 141, 227-238.	1.5	1,081
6	Longer and more frequent marine heatwaves over the past century. Nature Communications, 2018, 9, 1324.	5.8	1,081
7	Changes in Climate Extremes and their Impacts on the Natural Physical Environment. , 2012, , 109-230.		1,080
8	More extreme precipitation in the worldâ€™s dry and wet regions. Nature Climate Change, 2016, 6, 508-513.	8.1	1,043
9	Updated analyses of temperature and precipitation extreme indices since the beginning of the twentieth century: The HadEX2 dataset. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2098-2118.	1.2	1,029
10	Future changes to the intensity and frequency of short-duration extreme rainfall. Reviews of Geophysics, 2014, 52, 522-555.	9.0	911
11	Global Increasing Trends in Annual Maximum Daily Precipitation. Journal of Climate, 2013, 26, 3904-3918.	1.2	888
12	Marine heatwaves threaten global biodiversity and the provision of ecosystem services. Nature Climate Change, 2019, 9, 306-312.	8.1	883
13	On the Measurement of Heat Waves. Journal of Climate, 2013, 26, 4500-4517.	1.2	751
14	Increasing frequency, intensity and duration of observed global heatwaves and warm spells. Geophysical Research Letters, 2012, 39, .	1.5	701
15	Trends in Middle East climate extreme indices from 1950 to 2003. Journal of Geophysical Research, 2005, 110, .	3.3	405
16	The effects of climate extremes on global agricultural yields. Environmental Research Letters, 2019, 14, 054010.	2.2	382
17	No pause in the increase of hot temperature extremes. Nature Climate Change, 2014, 4, 161-163.	8.1	365
18	Indices for daily temperature and precipitation extremes in Europe analyzed for the period 1901â€“2000. Journal of Geophysical Research, 2006, 111, .	3.3	347

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19	A global assessment of marine heatwaves and their drivers. Nature Communications, 2019, 10, 2624.	5.8	337
20	Assessing trends in observed and modelled climate extremes over Australia in relation to future projections. International Journal of Climatology, 2009, 29, 417-435.	1.5	323
21	Global Land-Based Datasets for Monitoring Climatic Extremes. Bulletin of the American Meteorological Society, 2013, 94, 997-1006.	1.7	316
22	Comparison of Modeled and Observed Trends in Indices of Daily Climate Extremes. Journal of Climate, 2003, 16, 3560-3571.	1.2	302
23	Projected Marine Heatwaves in the 21st Century and the Potential for Ecological Impact. Frontiers in Marine Science, 2019, 6, .	1.2	300
24	Large-scale changes in observed daily maximum and minimum temperatures: Creation and analysis of a new gridded data set. Journal of Geophysical Research, 2006, 111, .	3.3	297
25	Global observed long-term changes in temperature and precipitation extremes: A review of progress and limitations in IPCC assessments and beyond. Weather and Climate Extremes, 2016, 11, 4-16.	1.6	292
26	Adjusting for sampling density in grid box land and ocean surface temperature time series. Journal of Geophysical Research, 2001, 106, 3371-3380.	3.3	256
27	The shifting probability distribution of global daytime and nightâ€time temperatures. Geophysical Research Letters, 2012, 39, .	1.5	253
28	European Climate Extremes and the North Atlantic Oscillation. Journal of Climate, 2008, 21, 72-83.	1.2	243
29	Future increases in extreme precipitation exceed observed scaling rates. Nature Climate Change, 2017, 7, 128-132.	8.1	242
30	Warming and wetting signals emerging from analysis of changes in climate extreme indices over South America. Global and Planetary Change, 2013, 100, 295-307.	1.6	238
31	Recent changes in climate extremes in the Caribbean region. Journal of Geophysical Research, 2002, 107, ACL 16-1-ACL 16-9.	3.3	230
32	Explaining Extreme Events of 2012 from a Climate Perspective. Bulletin of the American Meteorological Society, 2013, 94, S1-S74.	1.7	229
33	Development of an Updated Global Land In Situâ€Based Data Set of Temperature and Precipitation Extremes: HadEX3. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032263.	1.2	182
34	Understanding, modeling and predicting weather and climate extremes: Challenges and opportunities. Weather and Climate Extremes, 2017, 18, 65-74.	1.6	178
35	Updated Precipitation Series for the U.K. and Discussion of Recent Extremes. Atmospheric Science Letters, 2000, 1, 142-150.	0.8	169
36	Insights From CMIP6 for Australia's Future Climate. Earth's Future, 2020, 8, e2019EF001469.	2.4	164

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37	Changes in temperature and precipitation extremes over the Indoâ€Pacific region from 1971 to 2005. International Journal of Climatology, 2011, 31, 791-801.	1.5	162
38	Consistency of Temperature and Precipitation Extremes across Various Global Gridded In Situ and Reanalysis Datasets. Journal of Climate, 2014, 27, 5019-5035.	1.2	156
39	Drivers and impacts of the most extreme marine heatwave events. Scientific Reports, 2020, 10, 19359.	1.6	155
40	Historical and projected trends in temperature and precipitation extremes in Australia in observations and CMIP5. Weather and Climate Extremes, 2017, 15, 34-56.	1.6	148
41	The efficacy of using gridded data to examine extreme rainfall characteristics: a case study for Australia. International Journal of Climatology, 2013, 33, 2376-2387.	1.5	133
42	The timing of anthropogenic emergence in simulated climate extremes. Environmental Research Letters, 2015, 10, 094015.	2.2	126
43	How much does it rain over land?. Geophysical Research Letters, 2016, 43, 341-348.	1.5	116
44	The unprecedented coupled ocean-atmosphere summer heatwave in the New Zealand region 2017/18: drivers, mechanisms and impacts. Environmental Research Letters, 2019, 14, 044023.	2.2	111
45	Extreme heat rooted in dry soils. Nature Geoscience, 2011, 4, 12-13.	5.4	110
46	Temperature and precipitation extremes in centuryâ€long gridded observations, reanalyses, and atmospheric model simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,174.	1.2	110
47	An assessment of climate change impacts and adaptation for the Torres Strait Islands, Australia. Climatic Change, 2010, 102, 405-433.	1.7	102
48	Large uncertainties in observed daily precipitation extremes over land. Journal of Geophysical Research D: Atmospheres, 2017, 122, 668-681.	1.2	99
49	Effects of land cover change on temperature and rainfall extremes in multi-model ensemble simulations. Earth System Dynamics, 2012, 3, 213-231.	2.7	94
50	Reanalysis suggests long-term upward trends in European storminess since 1871. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	92
51	Extreme Rainfall Variability in Australia: Patterns, Drivers, and Predictability*. Journal of Climate, 2014, 27, 6035-6050.	1.2	92
52	On the use of selfâ€organizing maps for studying climate extremes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3891-3903.	1.2	92
53	Recent observed changes in severe storms over the United Kingdom and Iceland. Geophysical Research Letters, 2005, 32, .	1.5	90
54	Climate model simulated changes in temperature extremes due to land cover change. Journal of Geophysical Research, 2012, 117, .	3.3	88

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55	Asymmetry in the response of eastern Australia extreme rainfall to lowâ€frequency Pacific variability. Geophysical Research Letters, 2013, 40, 2271-2277.	1.5	88
56	Multiâ€dataset comparison of gridded observed temperature and precipitation extremes over China. International Journal of Climatology, 2015, 35, 2809-2827.	1.5	85
57	Intercomparison of annual precipitation indices and extremes over global land areas from in situ, space-based and reanalysis products. Environmental Research Letters, 2020, 15, 055002.	2.2	85
58	Influence of sea surface temperature variability on global temperature and precipitation extremes. Journal of Geophysical Research, 2009, 114, .	3.3	83
59	The impact of the El NiÃ±oâ€Southern Oscillation on maximum temperature extremes. Geophysical Research Letters, 2012, 39, .	1.5	83
60	Natural hazards in Australia: heatwaves. Climatic Change, 2016, 139, 101-114.	1.7	80
61	Precipitation From Persistent Extremes is Increasing in Most Regions and Globally. Geophysical Research Letters, 2019, 46, 6041-6049.	1.5	79
62	Climate Extremes: Challenges in Estimating and Understanding Recent Changes in the Frequency and Intensity of Extreme Climate and Weather Events. , 2013, , 339-389.		76
63	Reassessing changes in diurnal temperature range: Intercomparison and evaluation of existing global data set estimates. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5138-5158.	1.2	75
64	Attribution of extreme temperature changes during 1951â€"2010. Climate Dynamics, 2016, 46, 1769-1782.	1.7	74
65	On the use of indices to study extreme precipitation on sub-daily and daily timescales. Environmental Research Letters, 2019, 14, 125008.	2.2	73
66	GSDR: A Global Sub-Daily Rainfall Dataset. Journal of Climate, 2019, 32, 4715-4729.	1.2	73
67	Rainfall Estimates on a Gridded NetworkÂ(REGEN) â€" a global land-based gridded dataset of daily precipitation fromÂ1950 to 2016. Hydrology and Earth System Sciences, 2020, 24, 919-943.	1.9	73
68	Impact of Higher Spatial Atmospheric Resolution on Precipitation Extremes Over Land in Global Climate Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032184.	1.2	69
69	Has the climate become more variable or extreme? Progress 1992-2006. Progress in Physical Geography, 2007, 31, 77-87.	1.4	66
70	The influence of soil moisture deficits on Australian heatwaves. Environmental Research Letters, 2016, 11, 064003.	2.2	66
71	Fluctuations in autumnâ€"winter severe storms over the British Isles: 1920 to present. International Journal of Climatology, 2009, 29, 357-371.	1.5	65
72	FROGS: a daily 1Â°â€†â€‰Ã—â€‰â€†1Â° gridded precipitation database of rain gauge, satellite and reanalysis products. Earth System Science Data, 2019, 11, 1017-1035.	3.7	63

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73	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. Advances in Science and Research, 0, 15, 117-126.	1.0	59
74	Comparing regional precipitation and temperature extremes in climate model and reanalysis products. Weather and Climate Extremes, 2016, 13, 35-43.	1.6	56
75	Multi-model ensemble projections of future extreme temperature change using a statistical downscaling method in south eastern Australia. Climatic Change, 2016, 138, 85-98.	1.7	55
76	How Well Do Gridded Datasets of Observed Daily Precipitation Compare over Australia?. Advances in Meteorology, 2015, 2015, 1-15.	0.6	52
77	Climate extremes: progress and future directions. International Journal of Climatology, 2009, 29, 317-319.	1.5	50
78	A New Daily Pressure Dataset for Australia and Its Application to the Assessment of Changes in Synoptic Patterns during the Last Century. Journal of Climate, 2010, 23, 1111-1126.	1.2	49
79	Debate heating up over changes in climate variability. Environmental Research Letters, 2013, 8, 041001.	2.2	48
80	Systematic investigation of gridding-related scaling effects on annual statistics of daily temperature and precipitation maxima: A case study for south-east Australia. Weather and Climate Extremes, 2015, 9, 6-16.	1.6	48
81	Comparison of observed and multimodeled trends in annual extremes of temperature and precipitation. Geophysical Research Letters, 2007, 34, .	1.5	47
82	Assessing the Robustness of Future Extreme Precipitation Intensification in the CMIP5 Ensemble. Journal of Climate, 2018, 31, 6505-6525.	1.2	45
83	Diverse estimates of annual maxima daily precipitation in 22 state-of-the-art quasi-global land observation datasets. Environmental Research Letters, 2020, 15, 035005.	2.2	44
84	An updated assessment of trends and variability in total and extreme rainfall in the western Pacific. International Journal of Climatology, 2014, 34, 2775-2791.	1.5	41
85	Greater increases in temperature extremes in low versus high income countries. Environmental Research Letters, 2017, 12, 034007.	2.2	41
86	Extraordinary heat during the 1930s US Dust Bowl and associated large-scale conditions. Climate Dynamics, 2016, 46, 413-426.	1.7	40
87	Data Rescue in the Southeast Asia and South Pacific Region: Challenges and Opportunities. Bulletin of the American Meteorological Society, 2004, 85, 1483-1490.	1.7	38
88	Effect of Ambient Temperature on Australian Northern Territory Public Hospital Admissions for Cardiovascular Disease among Indigenous and Non-Indigenous Populations. International Journal of Environmental Research and Public Health, 2014, 11, 1942-1959.	1.2	35
89	Investigating uncertainties in global gridded datasets of climate extremes. Climate of the Past, 2014, 10, 2171-2199.	1.3	35
90	Changes in Observed Daily Precipitation over Global Land Areas since 1950. Journal of Climate, 2021, 34, 3-19.	1.2	35

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91	Projected changes in east Australian midlatitude cyclones during the 21st century. Geophysical Research Letters, 2016, 43, 334-340.	1.5	34
92	Impact of Identification Method on the Inferred Characteristics and Variability of Australian East Coast Lows. Monthly Weather Review, 2015, 143, 864-877.	0.5	33
93	Recent Changes in Mean and Extreme Temperature and Precipitation in the Western Pacific Islands. Journal of Climate, 2019, 32, 4919-4941.	1.2	33
94	The ENSO-Australian rainfall teleconnection in reanalysis and CMIP5. Climate Dynamics, 2015, 44, 2623-2635.	1.7	32
95	A framework for benchmarking of homogenisation algorithm performance on the global scale. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 187-200.	0.6	32
96	Evaluating synoptic systems in the CMIP5 climate models over the Australian region. Climate Dynamics, 2016, 47, 2235-2251.	1.7	31
97	Understanding the role of sea surface temperature-forcing for variability in global temperature and precipitation extremes. Weather and Climate Extremes, 2018, 21, 1-9.	1.6	31
98	Climate Assessment for 2001. Bulletin of the American Meteorological Society, 2002, 83, 938-938.	1.7	31
99	Resolution Sensitivity of Cyclone Climatology over Eastern Australia Using Six Reanalysis Products*. Journal of Climate, 2015, 28, 9530-9549.	1.2	30
100	A Multiregion Assessment of Observed Changes in the Areal Extent of Temperature and Precipitation Extremes. Journal of Climate, 2015, 28, 9206-9220.	1.2	29
101	Comparing Australian heat waves in the CMIP5 models through cluster analysis. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3266-3281.	1.2	29
102	Trends and variability of temperature extremes in the tropical Western Pacific. International Journal of Climatology, 2014, 34, 2585-2603.	1.5	27
103	Understanding the spatioâ€temporal influence of climate variability on Australian heatwaves. International Journal of Climatology, 2017, 37, 3963-3975.	1.5	27
104	On the nonlinearity of spatial scales in extreme weather attribution statements. Climate Dynamics, 2018, 50, 2739-2752.	1.7	25
105	Temperature and Humidity Effects on Hospital Morbidity in Darwin, Australia. Annals of Global Health, 2018, 81, 333.	0.8	24
106	Intensification of the Daily Wet Day Rainfall Distribution Across Australia. Geophysical Research Letters, 2018, 45, 8568-8576.	1.5	24
107	Forest plantations, water availability, and regional climate change: controversies surrounding Acacia mearnsii plantations in the upper Palnis Hills, southern India. Regional Environmental Change, 2010, 10, 103-117.	1.4	23
108	The Sensitivity of Daily Temperature Variability and Extremes to Dataset Choice. Journal of Climate, 2018, 31, 1337-1359.	1.2	23

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109	Changes in relative fit of human heat stress indices to cardiovascular, respiratory, and renal hospitalizations across five Australian urban populations. International Journal of Biometeorology, 2018, 62, 423-432.	1.3	22
110	Global and regional climate in 2003. Weather, 2004, 59, 145-152.	0.6	20
111	Differential Effects of Temperature Extremes on Hospital Admission Rates for Respiratory Disease between Indigenous and Non-Indigenous Australians in the Northern Territory. International Journal of Environmental Research and Public Health, 2015, 12, 15352-15365.	1.2	20
112	A Multiregion Model Evaluation and Attribution Study of Historical Changes in the Area Affected by Temperature and Precipitation Extremes. Journal of Climate, 2016, 29, 8285-8299.	1.2	19
113	Australian east coast midâ€latitude cyclones in the 20th Century Reanalysis ensemble. International Journal of Climatology, 2017, 37, 2187-2192.	1.5	19
114	Climate Assessment for 2000. Bulletin of the American Meteorological Society, 2001, 82, 1304-1304.	1.7	17
115	Understanding the Changing Nature of Marine Coldâ€Spells. Geophysical Research Letters, 2022, 49, .	1.5	17
116	Exploring trends in wet-season precipitation and drought indices in wet, humid and dry regions. Environmental Research Letters, 2019, 14, 115002.	2.2	16
117	Enhancing Middle East Climate Change Monitoring and Indexes. Bulletin of the American Meteorological Society, 2007, 88, 1249-1254.	1.7	15
118	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. Australian Meteorological Magazine, 2016, 66, 108-124.	0.4	15
119	The influence of local sea surface temperatures on Australian east coast cyclones. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,352.	1.2	14
120	Significant decline in storminess over southeast Australia since the late 19th century. Australian Meteorological Magazine, 2011, 61, 23-30.	0.4	14
121	Comparative evaluation of human heat stress indices on selected hospital admissions in Sydney, Australia. Australian and New Zealand Journal of Public Health, 2017, 41, 381-387.	0.8	13
122	Temperature and precipitation extremes in the second half of the twentieth century from numerical modeling results and observational data. Izvestiya - Atmospheric and Oceanic Physics, 2009, 45, 284-293.	0.2	12
123	A New Daily Observational Record from Grytviken, South Georgia: Exploring Twentieth-Century Extremes in the South Atlantic. Journal of Climate, 2018, 31, 1743-1755.	1.2	12
124	Severe storms inferred from 150 years of sub-daily pressure observations along Victoria's "Shipwreck Coast". Australian Meteorological Magazine, 2009, 58, 129-133.	0.4	12
125	Amplified warming of seasonal cold extremes relative to the mean in the Northern Hemisphere extratropics. Earth System Dynamics, 2020, 11, 97-111.	2.7	12
126	The representation of healthâ€relevant heatwave characteristics in a Regional Climate Model ensemble for New South Wales and the Australian Capital Territory, Australia. International Journal of Climatology, 2017, 37, 1195-1210.	1.5	11

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127	An investigation of some unexpected frost day increases in southern Australia. Australian Meteorological Magazine, 2014, 64, 261-271.	0.4	11
128	Variations in severe storms over China. Geophysical Research Letters, 2006, 33, .	1.5	10
129	Zonal winds and southeast Australian rainfall in global and regional climate models. Climate Dynamics, 2016, 46, 123-133.	1.7	10
130	Comments on â€œtemperatureâ€extreme precipitation scaling: A twoâ€way causality?â€. International Journal of Climatology, 2018, 38, 4661-4663.	1.5	10
131	The drivers of extreme rainfall event timing in Australia. International Journal of Climatology, 2021, 41, 6654-6673.	1.5	10
132	Synoptic influences on seasonal, interannual and decadal temperature variations in Melbourne, Australia. International Journal of Climatology, 2010, 30, 1372-1381.	1.5	9
133	Climate and Weather Extremes. , 2012, , 253-288.		8
134	Changes in daily temperature extremes relative to the mean in Coupled Model Intercomparison Project Phase 5 models and observations. International Journal of Climatology, 2019, 39, 5273-5291.	1.5	8
135	Global and regional climate in 2001. Weather, 2002, 57, 328-340.	0.6	7
136	On the Robustness of Annual Daily Precipitation Maxima Estimates Over Monsoon Asia. Frontiers in Climate, 2020, 2, .	1.3	6
137	Global and regional climate in 2000. Weather, 2001, 56, 255-267.	0.6	5
138	No significant difference between Australian heat wave impacts of Modoki and eastern Pacific El NiÃ±o. Geophysical Research Letters, 2017, 44, 5150-5157.	1.5	5
139	The influence of topography on midlatitude cyclones on Australia's east coast. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9173-9184.	1.2	5
140	Decadal predictability of temperature and precipitation means and extremes in a perfect-model experiment. Climate Dynamics, 2019, 53, 3711-3729.	1.7	5
141	A Framework to Determine the Limits of Achievable Skill for Interannual to Decadal Climate Predictions. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2882-2896.	1.2	4
142	Evaluating the representation of Australian East Coast Lows in a regional climate model ensemble. Journal of Southern Hemisphere Earth Systems Science, 2016, 66, 108-124.	0.7	4
143	More intense daily precipitation in <scp>CORDEXâ€SEA</scp> regional climate models than their forcing global climate models over Southeast Asia. International Journal of Climatology, 0, , .	1.5	4
144	Millions of digitized historical seaâ€level pressure observations rediscovered. Geoscience Data Journal, 2023, 10, 385-395.	1.8	3

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145	Global and regional climate in 2002. Weather, 2003, 58, 324-336.	0.6	1