

Ian Simmonds

List of Publications by Year in descending order

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206
papers

14,423
citations

17440

63
h-index

23533

111
g-index

209
all docs

209
docs citations

209
times ranked

9551
citing authors

#	ARTICLE	IF	CITATIONS
1	The central role of diminishing sea ice in recent Arctic temperature amplification. <i>Nature</i> , 2010, 464, 1334-1337.	27.8	1,733
2	IMILAST: A Community Effort to Intercompare Extratropical Cyclone Detection and Tracking Algorithms. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 529-547.	3.3	391
3	Exploring links between Arctic amplification and mid-latitude weather. <i>Geophysical Research Letters</i> , 2013, 40, 959-964.	4.0	336
4	Mean Southern Hemisphere Extratropical Cyclone Behavior in the 40-Year NCEP-NCAR Reanalysis. <i>Journal of Climate</i> , 2000, 13, 873-885.	3.2	320
5	The Atmospheric Response to Three Decades of Observed Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2013, 26, 1230-1248.	3.2	314
6	Increasing fall-winter energy loss from the Arctic Ocean and its role in Arctic temperature amplification. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	279
7	Amplified mid-latitude planetary waves favour particular regional weather extremes. <i>Nature Climate Change</i> , 2014, 4, 704-709.	18.8	273
8	Impact of Ural Blocking on Winter Warm Arctic-Cold Eurasian Anomalies. Part I: Blocking-Induced Amplification. <i>Journal of Climate</i> , 2016, 29, 3925-3947.	3.2	270
9	Local and remote controls on observed Arctic warming. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	264
10	Comparing and contrasting the behaviour of Arctic and Antarctic sea ice over the 35 year period 1979-2013. <i>Annals of Glaciology</i> , 2015, 56, 18-28.	1.4	242
11	Association between Australian rainfall and the Southern Annular Mode. <i>International Journal of Climatology</i> , 2007, 27, 109-121.	3.5	228
12	Atmospheric impacts of Arctic sea-ice loss, 1979-2009: separating forced change from atmospheric internal variability. <i>Climate Dynamics</i> , 2014, 43, 333-344.	3.8	225
13	The association of rainfall and other weather variables with road traffic volume in Melbourne, Australia. <i>Accident Analysis and Prevention</i> , 2005, 37, 109-124.	5.7	220
14	A climatology of Southern Hemisphere extratropical cyclones. <i>Climate Dynamics</i> , 1993, 9, 131-145.	3.8	213
15	The great Arctic cyclone of August 2012. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	193
16	Increased Quasi Stationarity and Persistence of Winter Ural Blocking and Eurasian Extreme Cold Events in Response to Arctic Warming. Part I: Insights from Observational Analyses. <i>Journal of Climate</i> , 2017, 30, 3549-3568.	3.2	193
17	Extraordinary September Arctic sea ice reductions and their relationships with storm behavior over 1979-2008. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	189
18	Relationships between the Interannual Variability of Antarctic Sea Ice and the Southern Oscillation. <i>Journal of Climate</i> , 1995, 8, 637-647.	3.2	185

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19	Variability of Southern Hemisphere Extratropical Cyclone Behavior, 1958â€“97. <i>Journal of Climate</i> , 2000, 13, 550-561.	3.2	184
20	Associations between $\delta^{18}O$ of Water and Climate Parameters in a Simulation of Atmospheric Circulation for 1979â€“95. <i>Journal of Climate</i> , 2002, 15, 3150-3169.	3.2	184
21	Synoptic Activity in the Seas around Antarctica. <i>Monthly Weather Review</i> , 2003, 131, 272-288.	1.4	182
22	Arctic Climate Change as Manifest in Cyclone Behavior. <i>Journal of Climate</i> , 2008, 21, 5777-5796.	3.2	177
23	Impact of Ural Blocking on Winter Warm Arcticâ€“Cold Eurasian Anomalies. Part II: The Link to the North Atlantic Oscillation. <i>Journal of Climate</i> , 2016, 29, 3949-3971.	3.2	152
24	Simulated Antarctic precipitation and surface mass balance at the end of the twentieth and twenty-first centuries. <i>Climate Dynamics</i> , 2006, 28, 215-230.	3.8	144
25	Some results from an intercomparison of the climates simulated by 14 atmospheric general circulation models. <i>Journal of Geophysical Research</i> , 1992, 97, 12771-12786.	3.3	138
26	Atmospheric circulation patterns which promote winter Arctic sea ice decline. <i>Environmental Research Letters</i> , 2017, 12, 054017.	5.2	133
27	Revisiting the Cause of the 1989â€“2009 Arctic Surface Warming Using the Surface Energy Budget: Downward Infrared Radiation Dominates the Surface Fluxes. <i>Geophysical Research Letters</i> , 2017, 44, 10,654.	4.0	129
28	Southern Hemisphere Winter Extratropical Cyclone Characteristics and Vertical Organization Observed with the ERA-40 Data in 1979â€“2001. <i>Journal of Climate</i> , 2007, 20, 2675-2690.	3.2	128
29	Declining summer snowfall in the Arctic: causes, impacts and feedbacks. <i>Climate Dynamics</i> , 2012, 38, 2243-2256.	3.8	128
30	Weakened Potential Vorticity Barrier Linked to Recent Winter Arctic Sea Ice Loss and Midlatitude Cold Extremes. <i>Journal of Climate</i> , 2019, 32, 4235-4261.	3.2	125
31	Explosive Cyclone Development in the Southern Hemisphere and a Comparison with Northern Hemisphere Events. <i>Monthly Weather Review</i> , 2002, 130, 2188-2209.	1.4	124
32	Polar Climate Change as Manifest in Atmospheric Circulation. <i>Current Climate Change Reports</i> , 2018, 4, 383-395.	8.6	123
33	Dramatic interannual changes of perennial Arctic sea ice linked to abnormal summer storm activity. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	121
34	Associations between varying magnitudes of the urban heat island and the synoptic climatology in Melbourne, Australia. <i>International Journal of Climatology</i> , 2000, 20, 1931-1954.	3.5	120
35	The characteristic variability and connection to the underlying synoptic activity of the Amundsenâ€“Bellingshausen Seas Low. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	116
36	Modelled atmospheric response to changes in Northern Hemisphere snow cover. <i>Climate Dynamics</i> , 1996, 13, 25-34.	3.8	110

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37	Identification and Climatology of Southern Hemisphere Mobile Fronts in a Modern Reanalysis. <i>Journal of Climate</i> , 2012, 25, 1945-1962.	3.2	109
38	On Cyclonic Tracks over the Eastern Mediterranean. <i>Journal of Climate</i> , 2010, 23, 5243-5257.	3.2	107
39	Climate links and recent extremes in antarctic sea ice, high-latitude cyclones, Southern Annular Mode and ENSO. <i>Climate Dynamics</i> , 2012, 38, 57-73.	3.8	105
40	Erroneous Arctic Temperature Trends in the ERA-40 Reanalysis: A Closer Look. <i>Journal of Climate</i> , 2011, 24, 2620-2627.	3.2	98
41	Modes of atmospheric variability over the Southern Ocean. <i>Journal of Geophysical Research</i> , 2003, 108, SOV 5-1.	3.3	97
42	The first South Atlantic hurricane: Unprecedented blocking, low shear and climate change. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	97
43	Changes in Atmospheric Blocking Circulations Linked with Winter Arctic Warming: A New Perspective. <i>Journal of Climate</i> , 2018, 31, 7661-7678.	3.2	95
44	Southern Extratropical Cyclone Behavior in ECMWF Analyses during the FROST Special Observing Periods. <i>Weather and Forecasting</i> , 1999, 14, 878-891.	1.4	93
45	Analysis of the "Spinup" of a general circulation model. <i>Journal of Geophysical Research</i> , 1985, 90, 5637-5660.	3.3	91
46	Validation of Jason-1 and Envisat Remotely Sensed Wave Heights. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 123-134.	1.3	90
47	Southern Hemisphere Synoptic Behavior in Extreme Phases of SAM, ENSO, Sea Ice Extent, and Southern Australia Rainfall. <i>Journal of Climate</i> , 2008, 21, 5566-5584.	3.2	89
48	Southern hemisphere cyclones and anticyclones: recent trends and links with decadal variability in the Pacific Ocean. <i>International Journal of Climatology</i> , 2007, 27, 1403-1419.	3.5	87
49	Annular variations in moisture transport mechanisms and the abundance of $\delta^{18}O$ in Antarctic snow. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 3-1.	3.3	86
50	The mean structure and temporal variability of the semiannual oscillation in the southern extratropics. <i>International Journal of Climatology</i> , 1998, 18, 473-504.	3.5	83
51	Increased Quasi Stationarity and Persistence of Winter Ural Blocking and Eurasian Extreme Cold Events in Response to Arctic Warming. Part II: A Theoretical Explanation. <i>Journal of Climate</i> , 2017, 30, 3569-3587.	3.2	83
52	Sea ice control of water isotope transport to Antarctica and implications for ice core interpretation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	82
53	Global and hemispheric climate variations affecting the Southern Ocean. <i>Antarctic Science</i> , 2004, 16, 401-413.	0.9	80
54	Extratropical fronts in the lower troposphere—global perspectives obtained from two automated methods. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1686-1698.	2.7	80

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55	Road accidents and rainfall in a large Australian city. <i>Accident Analysis and Prevention</i> , 2006, 38, 445-454.	5.7	79
56	Cyclone behaviour response to changes in winter southern hemisphere sea-ice concentration. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1993, 119, 1121-1148.	2.7	78
57	Variability and Trends of Global Atmospheric Frontal Activity and Links with Large-Scale Modes of Variability. <i>Journal of Climate</i> , 2015, 28, 3311-3330.	3.2	78
58	Are Greenhouse Gas Signals of Northern Hemisphere winter extra-tropical cyclone activity dependent on the identification and tracking algorithm?. <i>Meteorologische Zeitschrift</i> , 2013, 22, 61-68.	1.0	77
59	Weekly cycle of meteorological variations in Melbourne and the role of pollution and anthropogenic heat release. <i>Atmospheric Environment</i> , 1997, 31, 1589-1603.	4.1	74
60	Responses of climate and cyclones to reductions in Arctic winter sea ice. <i>Journal of Geophysical Research</i> , 1995, 100, 4791.	3.3	71
61	The Role of Extratropical Cyclones and Fronts for Southern Ocean Freshwater Fluxes. <i>Journal of Climate</i> , 2014, 27, 6205-6224.	3.2	69
62	The winter midlatitude-Arctic interaction: effects of North Atlantic SST and high-latitude blocking on Arctic sea ice and Eurasian cooling. <i>Climate Dynamics</i> , 2019, 52, 2981-3004.	3.8	69
63	Trends and variability in polar sea ice, global atmospheric circulations, and baroclinicity. <i>Annals of the New York Academy of Sciences</i> , 2021, 1504, 167-186.	3.8	68
64	A climatology of Southern Hemisphere anticyclones. <i>Climate Dynamics</i> , 1994, 10, 333-348.	3.8	67
65	Spatial and Temporal Variability and Trends in 2001â€“2016 Global Fire Activity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2524-2536.	3.3	65
66	Biases in the calculation of Southern Hemisphere mean baroclinic eddy growth rate. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	64
67	Caution needed when linking weather extremes to amplified planetary waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2327.	7.1	60
68	Shortâ€“term forecasting with a multiâ€“level spectral primitive equation model part I â€“model formulation. <i>Atmosphere</i> , 1976, 14, 98-116.	0.9	59
69	Large scale and sub-regional connections in the lead up to summer heat wave and extreme rainfall events in eastern Australia. <i>Climate Dynamics</i> , 2015, 44, 1823-1840.	3.8	59
70	The Antarctic First Regional Observing Study of the Troposphere (FROST) Project. <i>Bulletin of the American Meteorological Society</i> , 1996, 77, 2007-2032.	3.3	58
71	A Comparison of Automated Methods of Front Recognition for Climate Studies: A Case Study in Southwest Western Australia. <i>Monthly Weather Review</i> , 2014, 142, 343-363.	1.4	58
72	Persistence Characteristics of Australian Rainfall Anomalies. <i>International Journal of Climatology</i> , 1997, 17, 597-613.	3.5	57

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73	Climatological aspects of explosive cyclones in the Mediterranean. <i>International Journal of Climatology</i> , 2011, 31, 1785-1802.	3.5	56
74	What are the physical links between Arctic sea ice loss and Eurasian winter climate?. <i>Environmental Research Letters</i> , 2014, 9, 101003.	5.2	56
75	A New Method for Identifying the Pacificâ€™South American Pattern and Its Influence on Regional Climate Variability. <i>Journal of Climate</i> , 2016, 29, 6109-6125.	3.2	55
76	Observation and modeling of stable water isotopes as diagnostics of rainfall dynamics over southeastern Australia. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	52
77	A comparison of tracking methods for extreme cyclones in the Arctic basin. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 25252.	1.7	52
78	Dominant Covarying Climate Signals in the Southern Ocean and Antarctic Sea Ice Influence during the Last Three Decades. <i>Journal of Climate</i> , 2017, 30, 3055-3072.	3.2	52
79	Baroclinicity, Meridional Temperature Gradients, and the Southern Semiannual Oscillation. <i>Journal of Climate</i> , 1999, 12, 3376-3382.	3.2	50
80	Size Changes over the Life of Sea Level Cyclones in the NCEP Reanalysis. <i>Monthly Weather Review</i> , 2000, 128, 4118-4125.	1.4	50
81	Relationships between Antarctic cyclones and surface conditions as derived from high-resolution numerical weather prediction data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
82	Global Relationship between Fronts and Warm Conveyor Belts and the Impact on Extreme Precipitation*. <i>Journal of Climate</i> , 2015, 28, 8411-8429.	3.2	49
83	Current Trends in Antarctic Sea Ice: The 1990s Impact on a Short Climatology. <i>Journal of Climate</i> , 2000, 13, 4441-4451.	3.2	48
84	Distribution and temporal variability of 500 hPa cyclone characteristics in the Southern Hemisphere. <i>International Journal of Climatology</i> , 2002, 22, 131-150.	3.5	48
85	An Analysis of Strong Wind Events Simulated in a GCM near Casey in the Antarctic. <i>Monthly Weather Review</i> , 1993, 121, 522-534.	1.4	47
86	Midlatitude Winter Extreme Temperature Events and Connections with Anomalies in the Arctic and Tropics. <i>Journal of Climate</i> , 2021, 34, 3733-3749.	3.2	46
87	Modeling $\delta^{18}O$ in tropical precipitation and the surface $\delta^{18}O$ ocean for present-day climate. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45
88	Collaborative impact of the NAO and atmospheric blocking on European heatwaves, with a focus on the hot summer of 2018. <i>Environmental Research Letters</i> , 2020, 15, 114003.	5.2	45
89	Surface fluxes of momentum and mechanical energy over the North Pacific and North Atlantic Oceans. <i>Meteorology and Atmospheric Physics</i> , 2002, 80, 1-18.	2.0	44
90	A classification of wave generation characteristics during large wave events on the Southern Australian margin. <i>Continental Shelf Research</i> , 2008, 28, 634-652.	1.8	44

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91	Effect of tropospheric temperature change on the zonal mean circulation and SH winter extratropical cyclones. <i>Climate Dynamics</i> , 2009, 33, 19-32.	3.8	44
92	On the use of composite analyses to form physical hypotheses: An example from heat wave – SST associations. <i>Scientific Reports</i> , 2016, 6, 29599.	3.3	43
93	Subantarctic cyclones identified by 14 tracking methods, and their role for moisture transports into the continent. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 70, 1454808.	1.7	43
94	Anchoring of atmospheric teleconnection patterns by Arctic Sea ice loss and its link to winter cold anomalies in East Asia. <i>International Journal of Climatology</i> , 2021, 41, 547-558.	3.5	43
95	INTERANNUAL VARIABILITY OF SOUTH-EASTERN AFRICAN SUMMER RAINFALL. PART II. MODELLING THE IMPACT OF SEA-SURFACE TEMPERATURES ON RAINFALL AND CIRCULATION. <i>International Journal of Climatology</i> , 1997, 17, 267-290.	3.5	41
96	The influence of pre-existing soil moisture content on Australian winter climate. <i>International Journal of Climatology</i> , 1992, 12, 33-54.	3.5	40
97	The effect of statistical wind corrections on global wave forecasts. <i>Ocean Modelling</i> , 2013, 70, 116-131.	2.4	40
98	Global analysis of cyclone-induced compound precipitation and wind extreme events. <i>Weather and Climate Extremes</i> , 2021, 32, 100324.	4.1	40
99	AN ANALYSIS OF ANTARCTIC SEA-ICE AND EXTRATROPICAL CYCLONE ASSOCIATIONS. <i>International Journal of Climatology</i> , 1996, 16, 1315-1332.	3.5	39
100	Implications for the interpretation of ice-core isotope data from analysis of modelled Antarctic precipitation. <i>Annals of Glaciology</i> , 1998, 27, 398-402.	1.4	38
101	Mesoscale Cyclone Activity over the Ice-Free Southern Ocean: 1999–2008. <i>Journal of Climate</i> , 2010, 23, 5404-5420.	3.2	36
102	Associations between Antarctic katabatic flow and the upper level winter vortex. <i>International Journal of Climatology</i> , 1995, 15, 403-421.	3.5	35
103	A Simple Parameterization of Ice Leads In a General Circulation Model, and the Sensitivity of Climate Change in Antarctic Ice Concentration. <i>Annals of Glaciology</i> , 1990, 14, 266-269.	1.4	34
104	A Novel Approach to Diagnosing Southern Hemisphere Planetary Wave Activity and Its Influence on Regional Climate Variability. <i>Journal of Climate</i> , 2015, 28, 9041-9057.	3.2	34
105	Weekly cycles in peak time temperatures and urban heat island intensity. <i>Environmental Research Letters</i> , 2016, 11, 074003.	5.2	34
106	Sigma-coordinate calculation of topographically forced baroclinicity around Antarctica. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 33, 1-29.	1.8	32
107	Synoptic controls upon $\langle \hat{\tau} \rangle_{18^{\circ}\text{O}}$ in southern Tasmanian precipitation. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	32
108	Climatological aspects of cyclogenesis near Adélie Land Antarctica. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 63, 921.	1.7	32

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109	A Connection of Winter Eurasian Cold Anomaly to the Modulation of Ural Blocking by ENSO. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094304.	4.0	32
110	Tropospheric Response in the Antarctic Circumpolar Wave along the Sea Ice Edge around Antarctica. <i>Journal of Climate</i> , 2004, 17, 2765-2779.	3.2	31
111	Large-scale Vertical Momentum, Kinetic Energy and Moisture Fluxes in the Antarctic Sea-ice Region. <i>Boundary-Layer Meteorology</i> , 2005, 117, 149-177.	2.3	31
112	Midlatitude Fronts and Variability in the Southern Hemisphere Tropical Width. <i>Journal of Climate</i> , 2019, 32, 8243-8260.	3.2	31
113	An analysis of the environmental energetics associated with the transition of the first South Atlantic hurricane. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	30
114	The sensitivity of characteristics of cyclone activity to identification procedures in tracking algorithms. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 24961.	1.7	29
115	The Association of Australian Winter Climate with Ocean Temperatures to the West. <i>Journal of Climate</i> , 1991, 4, 1147-1161.	3.2	28
116	Sensitivity of numerical prognoses to Antarctic sea ice distribution. <i>Journal of Geophysical Research</i> , 1995, 100, 22681.	3.3	28
117	On the vertical structure of Mediterranean explosive cyclones. <i>Theoretical and Applied Climatology</i> , 2012, 110, 155-176.	2.8	28
118	Antarctic Peninsula warm winters influenced by Tasman Sea temperatures. <i>Nature Communications</i> , 2021, 12, 1497.	12.8	28
119	New perspectives on the synoptic development of the severe October 1992 Nome storm. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	27
120	Assessing characteristics of Mediterranean explosive cyclones for different data resolution. <i>Theoretical and Applied Climatology</i> , 2011, 105, 263-275.	2.8	27
121	Cold Events over Southern Australia: Synoptic Climatology and Hemispheric Structure. <i>Journal of Climate</i> , 2009, 22, 6679-6698.	3.2	26
122	Interactions between Hurricane Catarina (2004) and warm core rings in the South Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
123	Simultaneous mass balance inverse modeling of methane and carbon monoxide. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	25
124	The Australian Northwest Cloudband: Climatology, Mechanisms, and Association with Precipitation. <i>Journal of Climate</i> , 2019, 32, 6665-6684.	3.2	25
125	Synoptic comparison of cold events in winter and summer in Melbourne and Perth. <i>Theoretical and Applied Climatology</i> , 2000, 67, 19-32.	2.8	24
126	Seasonal Aspects of an Objective Climatology of Anticyclones Affecting the Mediterranean. <i>Journal of Climate</i> , 2014, 27, 9272-9289.	3.2	24

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127	Improvements in General Circulation Model performance in simulating Antarctic climate. <i>Antarctic Science</i> , 1990, 2, 287-300.	0.9	23
128	A late spring surge in the open water of the Antarctic sea ice pack. <i>Geophysical Research Letters</i> , 1999, 26, 1481-1484.	4.0	23
129	Half-century air temperature change above Antarctica: Observed trends and spatial reconstructions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
130	Precipitation changes due to the introduction of eddy-resolved sea surface temperatures into simulations of the "Pasha Bulker" Australian east coast low of June 2007. <i>Meteorology and Atmospheric Physics</i> , 2014, 125, 1-15.	2.0	23
131	The Use of Mean Atmospheric Parameters in the Calculation of Modeled Mean Surface Heat Fluxes over the World's Oceans. <i>Journal of Physical Oceanography</i> , 1989, 19, 205-215.	1.7	22
132	Impact of changing climate and land use on the hydrogeology of southeast Australia —. <i>Australian Journal of Earth Sciences</i> , 2008, 55, 1009-1021.	1.0	22
133	The Antarctic Circumpolar Wave: Its Presence and Interdecadal Changes during the Last 142 Years. <i>Journal of Climate</i> , 2017, 30, 6371-6389.	3.2	22
134	Antarctic skin temperature warming related to enhanced downward longwave radiation associated with increased atmospheric advection of moisture and temperature. <i>Environmental Research Letters</i> , 2021, 16, 064059.	5.2	22
135	Day-of-the-week variation of rainfall and maximum temperature in Melbourne, Australia. <i>Archiv für Meteorologie Geophysik Und Bioklimatologie Serie B</i> , 1986, 36, 317-330.	0.8	21
136	Weekly cycles of global fires—Associations with religion, wealth and culture, and insights into anthropogenic influences on global climate. <i>Geophysical Research Letters</i> , 2015, 42, 9579-9589.	4.0	21
137	A Climatology of the Marine Atmospheric Boundary Layer Over the Southern Ocean From Four Field Campaigns During 2016—2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033214.	3.3	21
138	Sea surface temperature—induced cyclogenesis in the Antarctic circumpolar wave. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
139	Decadal Variability of Winter Warm Arctic—Cold Eurasia Dipole Patterns Modulated by Pacific Decadal Oscillation and Atlantic Multidecadal Oscillation. <i>Earth's Future</i> , 2022, 10, .	6.3	20
140	Time and Space Spectral Analyses of Southern Hemisphere Sea Level Pressure Variability. <i>Monthly Weather Review</i> , 1993, 121, 661-672.	1.4	19
141	Eddy—Zonal Flow Interactions Associated with the Southern Hemisphere Annular Mode: Results from NCEP—DOE Reanalysis and a Quasi-Linear Model. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 873-888.	1.7	19
142	Relationships between Summer Rainfall over China and Ocean Temperatures in the Tropical Western Pacific. <i>Journal of the Meteorological Society of Japan</i> , 1996, 74, 273-279.	1.8	19
143	Decadal and centennial variability of the southern semiannual oscillation simulated in the GFDL coupled GCM. <i>Climate Dynamics</i> , 1997, 14, 45-53.	3.8	18
144	Combined Influences on North American Winter Air Temperature Variability from North Pacific Blocking and the North Atlantic Oscillation: Subseasonal and Interannual Time Scales. <i>Journal of Climate</i> , 2020, 33, 7101-7123.	3.2	18

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145	The effect of the prescription of zonally-uniform sea surface temperatures in a general circulation model. <i>Journal of Climatology</i> , 1986, 6, 641-659.	0.7	17
146	Application of an atmospheric tracer model to high southern latitudes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 44, 358.	1.6	16
147	Mass balance inverse modelling of methane in the 1990s using a Chemistry Transport Model. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2561-2580.	4.9	16
148	Mineral dust variability in central West Antarctica associated with ozone depletion. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2165-2175.	4.9	16
149	Application of an atmospheric tracer model to high southern latitudes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992, 44, 358-370.	1.6	15
150	The sensitivity of deduced CO ₂ sources and sinks to variations in transport and imposed surface concentrations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 613-625.	1.6	15
151	Multi-decadal climate variability in the Antarctic region and global change. <i>Annals of Glaciology</i> , 1998, 27, 617-622.	1.4	15
152	Climate perspective on the large-scale circulation associated with the transition of the first South Atlantic hurricane. <i>International Journal of Climatology</i> , 2009, 29, 1116-1130.	3.5	15
153	New perspectives on the synoptic and mesoscale structure of Hurricane Catarina. <i>Atmospheric Research</i> , 2010, 95, 157-171.	4.1	15
154	A high-resolution climatological study on the comparison between surface explosive and ordinary cyclones in the Mediterranean. <i>Regional Environmental Change</i> , 2014, 14, 1833-1846.	2.9	15
155	What causes extreme hot days in Europe?. <i>Environmental Research Letters</i> , 2018, 13, 071001.	5.2	14
156	The physical basis for a dynamic Antarctic sea-ice model for use with an atmospheric GCM. <i>Annals of Glaciology</i> , 1991, 15, 196-203.	1.4	13
157	Consequences of winter tropical pressure anomalies in the Australian region. <i>International Journal of Climatology</i> , 1992, 12, 419-434.	3.5	13
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