

John Turner

List of Publications by Year in descending order

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136
papers

11,328
citations

36303

51
h-index

32842

100
g-index

142
all docs

142
docs citations

142
times ranked

8496
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Rapid Regional Climate Warming on the Antarctic Peninsula. <i>Climatic Change</i> , 2003, 60, 243-274.	3.6	1,009
2	Antarctic climate change during the last 50 years. <i>International Journal of Climatology</i> , 2005, 25, 279-294.	3.5	948
3	Absence of 21st century warming on Antarctic Peninsula consistent with natural variability. <i>Nature</i> , 2016, 535, 411-415.	27.8	538
4	Antarctic climate change and the environment: an update. <i>Polar Record</i> , 2014, 50, 237-259.	0.8	411
5	Non-annular atmospheric circulation change induced by stratospheric ozone depletion and its role in the recent increase of Antarctic sea ice extent. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	410
6	The El Niño-southern oscillation and Antarctica. <i>International Journal of Climatology</i> , 2004, 24, 1-31.	3.5	383
7	Evolution of the Southern Annular Mode during the past millennium. <i>Nature Climate Change</i> , 2014, 4, 564-569.	18.8	277
8	Recent temperature trends in the Antarctic. <i>Nature</i> , 2002, 418, 291-292.	27.8	276
9	An Initial Assessment of Antarctic Sea Ice Extent in the CMIP5 Models. <i>Journal of Climate</i> , 2013, 26, 1473-1484.	3.2	261
10	The Amundsen Sea Low: Variability, Change, and Impact on Antarctic Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 111-121.	3.3	226
11	The Influence of the Amundsen-Bellinghshausen Seas Low on the Climate of West Antarctica and Its Representation in Coupled Climate Model Simulations. <i>Journal of Climate</i> , 2013, 26, 6633-6648.	3.2	222
12	The Amundsen Sea low. <i>International Journal of Climatology</i> , 2013, 33, 1818-1829.	3.5	203
13	Unprecedented springtime retreat of Antarctic sea ice in 2016. <i>Geophysical Research Letters</i> , 2017, 44, 6868-6875.	4.0	198
14	Causes of exceptional atmospheric circulation changes in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	197
15	Antarctic climate change and the environment. <i>Antarctic Science</i> , 2009, 21, 541-563.	0.9	195
16	The SCAR READER Project: Toward a High-Quality Database of Mean Antarctic Meteorological Observations. <i>Journal of Climate</i> , 2004, 17, 2890-2898.	3.2	192
17	State of the Antarctic and Southern Ocean climate system. <i>Reviews of Geophysics</i> , 2009, 47, .	23.0	190
18	Antarctic climate change over the twenty first century. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	172

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19	Positive Trend in the Antarctic Sea Ice Cover and Associated Changes in Surface Temperature. <i>Journal of Climate</i> , 2017, 30, 2251-2267.	3.2	143
20	Variability of precipitation over the coastal western Antarctic Peninsula from synoptic observations. <i>Journal of Geophysical Research</i> , 1997, 102, 13999-14007.	3.3	136
21	Significant Warming of the Antarctic Winter Troposphere. <i>Science</i> , 2006, 311, 1914-1917.	12.6	129
22	An Arctic and antarctic perspective on recent climate change. <i>International Journal of Climatology</i> , 2007, 27, 277-293.	3.5	125
23	Recent changes in Antarctic Sea Ice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140163.	3.4	122
24	Contrasting climate change in the two polar regions. <i>Polar Research</i> , 2009, 28, 146-164.	1.6	120
25	West Antarctic surface melt triggered by atmospheric rivers. <i>Nature Geoscience</i> , 2019, 12, 911-916.	12.9	112
26	Antarctic temperature variability and change from station data. <i>International Journal of Climatology</i> , 2020, 40, 2986-3007.	3.5	111
27	Atmospheric signals and characteristics of accumulation in Dronning Maud Land, Antarctica. <i>Journal of Geophysical Research</i> , 1999, 104, 19191-19211.	3.3	104
28	Model uncertainty in the ecosystem approach to fisheries. <i>Fish and Fisheries</i> , 2007, 8, 315-336.	5.3	98
29	The Dominant Role of Extreme Precipitation Events in Antarctic Snowfall Variability. <i>Geophysical Research Letters</i> , 2019, 46, 3502-3511.	4.0	98
30	Antarctic sea ice increase consistent with intrinsic variability of the Amundsen Sea Low. <i>Climate Dynamics</i> , 2016, 46, 2391-2402.	3.8	97
31	Advection in polar and sub-polar environments: Impacts on high latitude marine ecosystems. <i>Progress in Oceanography</i> , 2016, 149, 40-81.	3.2	95
32	Atmosphere-ocean-ice interactions in the Amundsen Sea Embayment, West Antarctica. <i>Reviews of Geophysics</i> , 2017, 55, 235-276.	23.0	92
33	The modelled surface mass balance of the Antarctic Peninsula at 5.5 km horizontal resolution. <i>Cryosphere</i> , 2016, 10, 271-285.	3.9	89
34	Tropical teleconnection impacts on Antarctic climate changes. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 680-698.	29.7	85
35	The impact of changes in sea ice advance on the large winter warming on the western Antarctic Peninsula. <i>International Journal of Climatology</i> , 2013, 33, 852-861.	3.5	84
36	Implications of the oceanic thermal skin temperature deviation at high wind speed. <i>Geophysical Research Letters</i> , 1999, 26, 2505-2508.	4.0	81

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37	Record warming at the South Pole during the past three decades. <i>Nature Climate Change</i> , 2020, 10, 762-770.	18.8	81
38	Recent ice loss from the Fleming and other glaciers, Wordie Bay, West Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	80
39	Spatial variability of Antarctic Peninsula net surface mass balance. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 4-1.	3.3	78
40	Precipitation over the Interior East Antarctic Ice Sheet Related to Midlatitude Blocking-High Activity. <i>Journal of Climate</i> , 2004, 17, 1914-1928.	3.2	77
41	Antarctic Peninsula Climate Variability and Its Causes as Revealed by Analysis of Instrumental Records. <i>Antarctic Research Series</i> , 0, , 17-30.	0.2	72
42	Solve Antarctica's sea-ice puzzle. <i>Nature</i> , 2017, 547, 275-277.	27.8	69
43	Recent Decrease of Summer Sea Ice in the Weddell Sea, Antarctica. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087127.	4.0	67
44	The synoptic origins of precipitation over the Antarctic Peninsula. <i>Antarctic Science</i> , 1995, 7, 327-337.	0.9	65
45	A positive trend in western Antarctic Peninsula precipitation over the last 50 years reflecting regional and Antarctic-wide atmospheric circulation changes. <i>Annals of Glaciology</i> , 2005, 41, 85-91.	1.4	63
46	The near-surface wind field over the Antarctic continent. <i>International Journal of Climatology</i> , 2004, 24, 1973-1982.	3.5	59
47	Future circulation changes off West Antarctica: Sensitivity of the Amundsen Sea Low to projected anthropogenic forcing. <i>Geophysical Research Letters</i> , 2016, 43, 367-376.	4.0	59
48	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
49	Spatial and temporal variability of net snow accumulation over the Antarctic from ECMWF re-analysis project data. <i>International Journal of Climatology</i> , 1999, 19, 697-724.	3.5	58
50	A role for newly forming sea ice in springtime polar tropospheric ozone loss? Observational evidence from Halley station, Antarctica. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	56
51	The role of the non-axisymmetric antarctic orography in forcing the observed pattern of variability of the Antarctic climate. <i>Geophysical Research Letters</i> , 2001, 28, 4111-4114.	4.0	55
52	Strong wind events in the Antarctic. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
53	Mesocyclone activity over the North-East Atlantic. Part 1: vortex distribution and variability. <i>International Journal of Climatology</i> , 1999, 19, 1187-1204.	3.5	54
54	Correlative and dynamic species distribution modelling for ecological predictions in the Antarctic: a cross-disciplinary concept. <i>Polar Research</i> , 2012, 31, 11091.	1.6	54

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55	Analysis of synoptic-scale low pressure systems within the Antarctic Peninsula sector of the circumpolar trough. <i>International Journal of Climatology</i> , 1998, 18, 253-280.	3.5	51
56	Record Low Antarctic Sea Ice Cover in February 2022. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	49
57	Atmospheric water vapor over Antarctica derived from Special Sensor Microwave/Temperature 2 data. <i>Journal of Geophysical Research</i> , 2001, 106, 10187-10203.	3.3	47
58	Met Office Unified Model high-resolution simulations of a strong wind event in Antarctica. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2287-2297.	2.7	46
59	Variability of sea-ice in the northern Weddell Sea during the 20th century. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4549-4572.	2.6	45
60	A 308 year record of climate variability in West Antarctica. <i>Geophysical Research Letters</i> , 2013, 40, 5492-5496.	4.0	43
61	Summer-season mesoscale cyclones in the bellingshausen-weddell region of the antarctic and links with the synoptic-scale environment. <i>International Journal of Climatology</i> , 1994, 14, 871-894.	3.5	41
62	Anomalous atmospheric circulation over the Weddell Sea, Antarctica during the Austral summer of 2001/02 resulting in extreme sea ice conditions. <i>Geophysical Research Letters</i> , 2002, 29, 13-1-13-4.	4.0	41
63	A Predominant Reversal in the Relationship between the SAM and East Antarctic Temperatures during the Twenty-First Century. <i>Journal of Climate</i> , 2013, 26, 5196-5204.	3.2	41
64	Record low surface air temperature at Vostok station, Antarctica. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
65	The importance of sea ice area biases in 21st century multimodel projections of Antarctic temperature and precipitation. <i>Geophysical Research Letters</i> , 2015, 42, 10,832.	4.0	39
66	Rapid Decline of Total Antarctic Sea Ice Extent during 2014–16 Controlled by Wind-Driven Sea Ice Drift. <i>Journal of Climate</i> , 2019, 32, 5381-5395.	3.2	39
67	Polar lows and arctic instability lows in the Bear Island region. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 133-154.	1.7	39
68	A comparison of Arctic and Antarctic mesoscale vortices. <i>Journal of Geophysical Research</i> , 1993, 98, 13019-13034.	3.3	38
69	Mesocyclone activity over the Northeast Atlantic. Part 2: An investigation of causal mechanisms. <i>International Journal of Climatology</i> , 1999, 19, 1283-1299.	3.5	38
70	Extreme Temperatures in the Antarctic. <i>Journal of Climate</i> , 2021, 34, 2653-2668.	3.2	38
71	A Synergistic Approach for Evaluating Climate Model Output for Ecological Applications. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	37
72	Summer Drivers of Atmospheric Variability Affecting Ice Shelf Thinning in the Amundsen Sea Embayment, West Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 4124-4133.	4.0	32

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73	A Mesoscale Vortex over Halley Station, Antarctica. <i>Monthly Weather Review</i> , 1993, 121, 1317-1336.	1.4	31
74	Recent Reoccurrence of Large Openâ€œOcean Polynya on the Maud Rise Seamount. <i>Geophysical Research Letters</i> , 2019, 46, 4320-4329.	4.0	31
75	Temporal and spatial evolution of the Antarctic sea ice prior to the September 2012 record maximum extent. <i>Geophysical Research Letters</i> , 2013, 40, 5894-5898.	4.0	30
76	Developing resilience to climate change impacts in Antarctica: An evaluation of Antarctic Treaty System protected area policy. <i>Environmental Science and Policy</i> , 2021, 124, 12-22.	4.9	30
77	The performance of the Hadley Centre Climate Model (HadCM3) in high southern latitudes. <i>International Journal of Climatology</i> , 2006, 26, 91-112.	3.5	29
78	An Assessment of Operational Antarctic Analyses Based on Data from the FROST Project. <i>Weather and Forecasting</i> , 1999, 14, 817-834.	1.4	28
79	Observations of cloud and precipitation particles on the Avery Plateau, Antarctic Peninsula. <i>Antarctic Science</i> , 2001, 13, 339-348.	0.9	28
80	An assessment of three automatic depression tracking schemes. <i>Meteorological Applications</i> , 1999, 6, 173-183.	2.1	27
81	Downward Wave Reflection as a Mechanism for the Stratosphereâ€œTroposphere Response to the 11-Yr Solar Cycle. <i>Journal of Climate</i> , 2017, 30, 2395-2414.	3.2	27
82	The Arctic and Antarctic: Two Faces of Climate Change. <i>Eos</i> , 2008, 89, 177-178.	0.1	26
83	An assessment of the Polar Weather Research and Forecasting (WRF) model representation of nearâ€œsurface meteorological variables over West Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1532-1548.	3.3	26
84	Sources of uncertainty in projections of twenty-first century westerly wind changes over the Amundsen Sea, West Antarctica, in CMIP5 climate models. <i>Climate Dynamics</i> , 2014, 43, 2093-2104.	3.8	23
85	Variability in the ENSOâ€œinduced southern hemispheric circulation and Antarctic sea ice extent. <i>International Journal of Climatology</i> , 2013, 33, 778-783.	3.5	22
86	Potential for Southern Hemisphere climate surprises. <i>Journal of Quaternary Science</i> , 2015, 30, 391-395.	2.1	22
87	Katabatic wind propagation over the western Ross Sea observed using ERS-1 scatterometer data. <i>Antarctic Science</i> , 1997, 9, 221-226.	0.9	21
88	Variability and trends in the Southern Hemisphere high latitude, quasiâ€œstationary planetary waves. <i>International Journal of Climatology</i> , 2017, 37, 2325-2336.	3.5	21
89	An Extreme High Temperature Event in Coastal East Antarctica Associated With an Atmospheric River and Record Summer Downslope Winds. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	20
90	Cyclone-induced rapid creation of extreme Antarctic sea ice conditions. <i>Scientific Reports</i> , 2014, 4, 5317.	3.3	19

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91	Record low sea ice extent in the Weddell Sea, Antarctica in April/May 2019 driven by intense and explosive polar cyclones. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	6.8	19
92	Surface wind fields of Antarctic mesocyclones derived from ERS 1 scatterometer data. <i>Journal of Geophysical Research</i> , 1997, 102, 13907-13921.	3.3	18
93	Understanding Antarctic Peninsula precipitation distribution and variability using a numerical weather prediction model. <i>Annals of Glaciology</i> , 1998, 27, 591-596.	1.4	18
94	An operational, real-time cloud detection scheme for use in the Antarctic based on AVHRR data. <i>International Journal of Remote Sensing</i> , 2001, 22, 3027-3046.	2.9	18
95	An exceptional winter sea ice retreat/advance in the Bellingshausen sea, Antarctica. <i>Atmosphere - Ocean</i> , 2003, 41, 171-185.	1.6	17
96	The effect of resolution on high latitude cloud track winds produced from AVHRR imagery. <i>Advances in Space Research</i> , 1992, 12, 119-121.	2.6	16
97	Can current reanalyses accurately portray changes in Southern Annular Mode structure prior to 1979?. <i>Climate Dynamics</i> , 2022, 59, 3717-3740.	3.8	16
98	Cloud track winds in the polar regions from sequences of AVHRR images. <i>International Journal of Remote Sensing</i> , 1989, 10, 695-703.	2.9	15
99	Utilising IPCC assessments to support the ecosystem approach to fisheries management within a warming Southern Ocean. <i>Marine Policy</i> , 2021, 131, 104589.	3.2	15
100	Polar lows and arctic instability lows in the Bear Island region. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 133-154.	1.7	14
101	An extreme wind event at Casey Station, Antarctica. <i>Journal of Geophysical Research</i> , 2001, 106, 7291-7311.	3.3	14
102	A climatology of strong wind events at <scp>McMurdo</scp> station, Antarctica. <i>International Journal of Climatology</i> , 2013, 33, 2667-2681.	3.5	14
103	High-latitude moisture structure determined from HIRS water vapour imagery. <i>International Journal of Remote Sensing</i> , 1992, 13, 81-95.	2.9	13
104	An Evaluation of a Self-Calibrating Infrared Radiometer for Measuring Sea Surface Temperature. <i>Journal of Atmospheric and Oceanic Technology</i> , 1995, 12, 301-316.	1.3	12
105	Numerical Weather Prediction Model Performance over High Southern Latitudes. <i>Monthly Weather Review</i> , 2003, 131, 335-353.	1.4	11
106	Interpreting recent accumulation records through an understanding of the regional synoptic climatology: an example from the southern Antarctic Peninsula. <i>Annals of Glaciology</i> , 1998, 27, 610-616.	1.4	10
107	A Comparative Study of Wave Forcing Derived from the ERA-40 and ERA-Interim Reanalysis Datasets. <i>Journal of Climate</i> , 2015, 28, 2291-2311.	3.2	9
108	Predicting Total Ozone Based on GTS Data: Applications for South American High-Latitude Populations. <i>Journal of Applied Meteorology and Climatology</i> , 1998, 37, 477-485.	1.7	8

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109	On the Reanalysis of Southern Hemisphere Charts for the FROST Project. <i>Weather and Forecasting</i> , 1999, 14, 909-919.	1.4	8
110	Historical and projected changes in the Southern Hemisphere Sub-tropical Jet during winter from the CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 661-681.	3.8	8
111	The simulation of Antarctic sea ice in the Hadley Centre Climate Model (HadCM3). <i>Annals of Glaciology</i> , 2001, 33, 585-591.	1.4	7
112	A Multidisciplinary Perspective on Climate Model Evaluation For Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, ES23-ES26.	3.3	7
113	A comparison of satellite sounding data and aircraft measurements within a mature polar low. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 119-132.	1.7	6
114	Synoptic-Scale Weather Systems Observed during the FROST Project via Scatterometer Winds. <i>Weather and Forecasting</i> , 1999, 14, 867-877.	1.4	6
115	Antarctic winter tropospheric warming – the potential role of polar stratospheric clouds, a sensitivity study. <i>Atmospheric Science Letters</i> , 2009, 10, 262-266.	1.9	6
116	An assessment of UK Meteorological Office numerical weather prediction analyses and forecasts for the Antarctic. <i>Antarctic Science</i> , 1997, 9, 100-109.	0.9	5
117	A Strong Wind Event on the Ross Ice Shelf, Antarctica: A Case Study of Scale Interactions. <i>Monthly Weather Review</i> , 2015, 143, 4163-4180.	1.4	5
118	<i>Climatology.</i> , 2003, , 52-149.		5
119	The contribution of Seasat to ice sheet glaciology. <i>International Journal of Remote Sensing</i> , 1991, 12, 1753-1774.	2.9	4
120	High resolution observations of Weddell Sea surface currents using ERS-I SAR sea-ice motion vectors. <i>International Journal of Remote Sensing</i> , 1995, 16, 3409-3425.	2.9	4
121	Validation of Atlantic Ocean Sea Surface Temperatures Measured by the ERS-1 Along Track Scanning Radiometer. <i>Journal of Atmospheric and Oceanic Technology</i> , 1995, 12, 1303-1312.	1.3	4
122	Report on the First International Symposium on Operational Weather Forecasting in Antarctica. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 75-94.	3.3	4
123	Effects of tropical sea surface temperature (SST) errors on the Antarctic atmospheric circulation of HadCM3. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	4
124	Weather forecasting for aviation and marine operations in the Antarctic Peninsula region. <i>Meteorological Applications</i> , 2007, 2, 323-332.	2.1	4
125	A comparison of satellite sounding data and aircraft measurements within a mature polar low. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1992, 44, 119-132.	1.7	3
126	Mechanisms associated with the rapid decline in sea ice cover around a stranded ship in the Lazarev Sea, Antarctica. <i>Science of the Total Environment</i> , 2022, 821, 153379.	8.0	3

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127	High Resolution Temperature Sounding Of The Polar Atmosphere. , 0, , .		2
128	Antarctic Meteorological Observations on the GTS during the FROST Project. Weather and Forecasting, 1999, 14, 811-816.	1.4	2
129	ARCTIC AND ANTARCTIC Antarctic Climate. , 2015, , 98-106.		2
130	Passive microwave retrievals of precipitation over the Southern Ocean. International Journal of Remote Sensing, 1997, 18, 1725-1742.	2.9	1
131	A pilot study for predicting ozone amounts for the general public in southern Chile. Meteorological Applications, 2000, 7, 37-43.	2.1	1
132	Preface to the Special Issue on Antarctic Meteorology and Climate: Past, Present and Future. Advances in Atmospheric Sciences, 2020, 37, 421-422.	4.3	1
133	The use of direct readout, high resolution TOVS data in short and medium range weather predictions. Advances in Space Research, 1987, 7, 347-350.	2.6	0
134	The El-Niño-Southern Oscillation Phenomenon, <i>Edited by</i> Edward S. Sarachik & Mark A. Cane, Cambridge University Press, Cambridge, 2010, ISBN 978-0-521-84786-5. 384 pages. £45. Antarctic Science, 2010, 22, 817-818.	0.9	0
135	Report on IAMAS Activity since 2015 and the IAPSO-IAMAS-IAGA Scientific Assemblyâ€™Good Hope For Earth Sciences. Advances in Atmospheric Sciences, 2018, 35, 371-375.	4.3	0
136	Numerical simulation. , 2003, , 405-500.		0