

# Simon F B Tett

## List of Publications by Year in Descending Order

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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.

133  
papers

10,994  
citations

47  
h-index

104  
g-index

149  
ext. papers

12,083  
ext. citations

7.8  
avg, IF

6  
L-index

#	Paper	IF	Citations
133	Does Model Calibration Reduce Uncertainty in Climate Projections?. <i>Journal of Climate</i> , <b>2022</b> , 1-39	4.4	1
132	Reduced Probability of 2020 June-July Persistent Heavy Mei-yu Rainfall Event in the Middle to Lower Reaches of the Yangtze River Basin under Anthropogenic Forcing. <i>Bulletin of the American Meteorological Society</i> , <b>2022</b> , 103, S83-S89	6.1	2
131	A derivative-free optimisation method for global ocean biogeochemical models. <i>Geoscientific Model Development</i> , <b>2022</b> , 15, 3537-3554	6.3	0
130	Quantifying the contribution of an individual to making extreme weather events more likely. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 104040	6.2	2
129	Changes in regional wet heatwave in Eurasia during summer (1979-2017). <i>Environmental Research Letters</i> , <b>2021</b> , 16, 064094	6.2	1
128	Widespread Persistent Extreme Cold Events Over South-East China: Mechanisms, Trends, and Attribution. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033447	4.4	4
127	Anthropogenic Influence on 2019 May-June Extremely Low Precipitation in Southwestern China. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, S97-S102	6.1	7
126	Carbon accounting for negative emissions technologies. <i>Climate Policy</i> , <b>2021</b> , 21, 699-717	5.3	9
125	Detectable anthropogenic changes in daily-scale circulations driving summer rainfall shifts over eastern China. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 074044	6.2	1
124	Was the Extended Rainy Winter 2018/19 over the Middle and Lower Reaches of the Yangtze River Driven by Anthropogenic Forcing?. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, S67-S73	6.1	3
123	Anthropogenic Influences on Heavy Precipitation during the 2019 Extremely Wet Rainy Season in Southern China. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, S103-S109	6.1	4
122	Anthropogenic Influences on the Persistent Night-Time Heat Wave in Summer 2018 over Northeast China. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, S83-S88	6.1	9
121	Ocean and land forcing of the record-breaking Dust Bowl heatwaves across central United States. <i>Nature Communications</i> , <b>2020</b> , 11, 2870	17.4	8
120	Anthropogenic Influence on 2018 Summer Persistent Heavy Rainfall in Central Western China. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, S65-S70	6.1	7
119	Learning from the 2018 heatwave in the context of climate change: are high-temperature extremes important for adaptation in Scotland?. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 034051	6.2	5
118	Anthropogenically-driven increases in the risks of summertime compound hot extremes. <i>Nature Communications</i> , <b>2020</b> , 11, 528	17.4	49
117	Underestimated Change of Wet-Bulb Temperatures Over East and South China. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL086140	4.9	15

116	Understanding Interdependent Climate Change Risks Using a Serious Game. <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1279-E1300	6.1	5
115	Homogenized Daily Relative Humidity Series in China during 1960–2017. <i>Advances in Atmospheric Sciences</i> , <b>2020</b> , 37, 318-327	2.9	17
114	Anthropogenic Influences on 2019 July Precipitation Extremes Over the Mid–Lower Reaches of the Yangtze River. <i>Frontiers in Environmental Science</i> , <b>2020</b> , 8,	4.8	3
113	Projected near term changes in the East Asian summer monsoon and its uncertainty. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 084038	6.2	6
112	How much has urbanisation affected United Kingdom temperatures?. <i>Atmospheric Science Letters</i> , <b>2019</b> , 20, e896	2.4	9
111	The Local Aerosol Emission Effect on Surface Shortwave Radiation and Temperatures. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 806-817	7.1	9
110	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017–like Heat Waves over Central Eastern China. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, S91-S95	6.1	11
109	Contribution of Anthropogenic Climate Change to April–May 2017 Heavy Precipitation over the Uruguay River Basin. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, S37-S41	6.1	10
108	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe. <i>Climate Dynamics</i> , <b>2019</b> , 52, 1187-1210	4.2	22
107	Can downwelling far-infrared radiances over Antarctica be estimated from mid-infrared information?. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 7927-7937	6.8	0
106	Attribution of Detected Temperature Trends in Southeast Brazil. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 8407-8414	4.9	9
105	Disentangling the causes of the 1816 European year without a summer. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 094019	6.2	6
104	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study. <i>Journal of Climate</i> , <b>2018</b> , 31, 3387-3410	4.4	7
103	Attribution of extreme precipitation in the lower reaches of the Yangtze River during May 2016. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 014015	6.2	20
102	Central-Eastern China Persistent Heat Waves: Evaluation of the AMIP Models. <i>Journal of Climate</i> , <b>2018</b> , 31, 3609-3624	4.4	8
101	Interpretations of the Paris climate target. <i>Nature Geoscience</i> , <b>2018</b> , 11, 220-221	18.3	23
100	Automated parameter tuning applied to sea ice in a global climate model. <i>Climate Dynamics</i> , <b>2018</b> , 50, 51-65	4.2	5
99	Have human activities changed the frequencies of absolute extreme temperatures in eastern China?. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 014012	6.2	6

98	Estimating the Transient Climate Response from Observed Warming. <i>Journal of Climate</i> , <b>2018</b> , 31, 8645-8663	4.4	27
97	Impacts of Anthropogenic Forcings and El Niño on Chinese Extreme Temperatures. <i>Advances in Atmospheric Sciences</i> , <b>2018</b> , 35, 994-1002	2.9	14
96	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 114004	6.2	16
95	Glacier change along West Antarctica's Marie Byrd Land Sector and links to inter-decadal atmosphere-ocean variability. <i>Cryosphere</i> , <b>2018</b> , 12, 2461-2479	5.5	10
94	Storylines: an alternative approach to representing uncertainty in physical aspects of climate change. <i>Climatic Change</i> , <b>2018</b> , 151, 555-571	4.5	130
93	Anthropogenic Forcings and Associated Changes in Fire Risk in Western North America and Australia During 2015/16. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, S60-S64	6.1	4
92	Human Influence on the Record-breaking Cold Event in January of 2016 in Eastern China. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, S118-S122	6.1	28
91	Correcting urban bias in large-scale temperature records in China, 1980-2009. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 401-408	4.9	24
90	Calibrating Climate Models Using Inverse Methods: Case studies with HadAM3, HadAM3P and HadCM3 <b>2017</b> ,		1
89	Global evaluation of gross primary productivity in the JULES land surface model v3.4.1. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 2651-2670	6.3	30
88	Summer heat waves over Eastern China: dynamical processes and trend attribution. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 024015	6.2	45
87	Importance of the Pre-Industrial Baseline in Determining the Likelihood of Exceeding the Paris Limits. <i>Nature Climate Change</i> , <b>2017</b> , 7, 563-567	21.4	67
86	What is the Uncertainty in Degree-Day Projections due to Different Calibration Methodologies?. <i>Journal of Climate</i> , <b>2017</b> , 30, 9059-9075	4.4	6
85	Calibrating climate models using inverse methods: case studies with HadAM3, HadAM3P and HadCM3. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 3567-3589	6.3	11
84	Four-decade record of pervasive grounding line retreat along the Bellingshausen margin of West Antarctica. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 5741-5749	4.9	36
83	Near-term prediction of impact-relevant extreme temperature indices. <i>Climatic Change</i> , <b>2015</b> , 132, 61-76	4.5	6
82	Using IASI to simulate the total spectrum of outgoing long-wave radiances. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6561-6575	6.8	7
81	Evaluation of mechanisms of hot and cold days in climate models over Central Europe. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 014002	6.2	19

80	Multi-site evaluation of the JULES land surface model using global and local data. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 295-316	6.3	12
79	Fossil fuels in a trillion tonne world. <i>Nature Climate Change</i> , <b>2015</b> , 5, 419-423	21.4	63
78	Agro-meteorological indices and climate model uncertainty over the UK. <i>Climatic Change</i> , <b>2015</b> , 128, 113-126	4.5	16
77	Using longwave HIRS radiances to test climate models. <i>Climate Dynamics</i> , <b>2014</b> , 43, 1103-1127	4.2	7
76	Small influence of solar variability on climate over the past millennium. <i>Nature Geoscience</i> , <b>2014</b> , 7, 104-108	10.3	118
75	Multi-site evaluation of the JULES land surface model using global and local data <b>2014</b> ,		3
74	How Much Has the North Atlantic Ocean Overturning Circulation Changed in the Last 50 Years?. <i>Journal of Climate</i> , <b>2014</b> , 27, 6325-6342	4.4	15
73	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part I: Tuning. <i>Journal of Climate</i> , <b>2013</b> , 26, 9348-9366	4.4	17
72	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part II: Climate Sensitivity. <i>Journal of Climate</i> , <b>2013</b> , 26, 9367-9383	4.4	20
71	Can a Decadal Forecasting System Predict Temperature Extreme Indices?*. <i>Journal of Climate</i> , <b>2013</b> , 26, 3728-3744	4.4	21
70	Separating Forced from Chaotic Climate Variability over the Past Millennium. <i>Journal of Climate</i> , <b>2013</b> , 26, 6954-6973	4.4	111
69	Obtaining diverse behaviors in a climate model without the use of flux adjustments. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2781-2793	4.4	19
68	Discrepancies between the modeled and proxy-reconstructed response to volcanic forcing over the past millennium: Implications and possible mechanisms. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7617-7627	4.4	19
67	Large-scale temperature response to external forcing in simulations and reconstructions of the last millennium. <i>Climate of the Past</i> , <b>2013</b> , 9, 393-421	3.9	113
66	Simulated Diurnal Cycles in HIRS Clear-Sky Brightness Temperatures. <i>Journal of Climate</i> , <b>2012</b> , 25, 5845-5863	4.4	8
65	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		38
64	Influence of human and natural forcing on European seasonal temperatures. <i>Nature Geoscience</i> , <b>2011</b> , 4, 99-103	18.3	100
63	Climatological Diurnal Cycles in Clear-Sky Brightness Temperatures from the High-Resolution Infrared Radiation Sounder (HIRS). <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2011</b> , 28, 1199-1205 <sup>2</sup>	2	18

62	Critically Reassessing Tropospheric Temperature Trends from Radiosondes Using Realistic Validation Experiments. <i>Journal of Climate</i> , <b>2009</b> , 22, 465-485	4.4	53
61	Fluctuations in autumn/winter severe storms over the British Isles: 1920 to present. <i>International Journal of Climatology</i> , <b>2009</b> , 29, 357-371	3.5	58
60	Assessing Bias and Uncertainty in the HadAT-Adjusted Radiosonde Climate Record. <i>Journal of Climate</i> , <b>2008</b> , 21, 817-832	4.4	50
59	Deriving a sea surface temperature record suitable for climate change research from the along-track scanning radiometers. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1-11	2.4	41
58	A global climatology of the diurnal variations in sea-surface temperature and implications for MSU temperature trends. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	57
57	Isolating the signal of ocean global warming. <i>Geophysical Research Letters</i> , <b>2007</b> , 34, n/a-n/a	4.9	66
56	European climate response to tropical volcanic eruptions over the last half millennium. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	258
55	Progress in Paleoclimate Modeling*. <i>Journal of Climate</i> , <b>2006</b> , 19, 5031-5057	4.4	53
54	Simulated Global-Mean Sea Level Changes over the Last Half-Millennium. <i>Journal of Climate</i> , <b>2006</b> , 19, 4576-4591	4.4	61
53	Chapter 1 Mediterranean climate variability over the last centuries: A review. <i>Developments in Earth and Environmental Sciences</i> , <b>2006</b> , 4, 27-148		87
52	Two-hundred-fifty years of reconstructed and modeled tropical temperatures. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		64
51	Uncertainty estimates in regional and global observed temperature changes: A new data set from 1850. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		1387
50	Improved Analyses of Changes and Uncertainties in Sea Surface Temperature Measured In Situ since the Mid-Nineteenth Century: The HadSST2 Dataset. <i>Journal of Climate</i> , <b>2006</b> , 19, 446-469	4.4	627
49	The impact of natural and anthropogenic forcings on climate and hydrology since 1550. <i>Climate Dynamics</i> , <b>2006</b> , 28, 3-34	4.2	98
48	Revisiting radiosonde upper air temperatures from 1958 to 2002. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		159
47	Recent observed changes in severe storms over the United Kingdom and Iceland. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	76
46	Detecting and Attributing External Influences on the Climate System: A Review of Recent Advances. <i>Journal of Climate</i> , <b>2005</b> , 18, 1291-1314	4.4	173
45	An AOGCM simulation of the climate response to a volcanic super-eruption. <i>Climate Dynamics</i> , <b>2005</b> , 25, 725-738	4.2	83

44	MEETING SUMMARIES. <i>Bulletin of the American Meteorological Society</i> , <b>2005</b> , 86, 1471-1480	6.1	1
43	Atmospheric science: tropospheric temperature series from satellites. <i>Nature</i> , <b>2004</b> , 432, 1 p following 572; discussion following 572	50.4	11
42	Simple indices of global climate variability and change Part II: attribution of climate change during the twentieth century. <i>Climate Dynamics</i> , <b>2004</b> , 22, 823-838	4.2	50
41	Reconstructing past climate from noisy data. <i>Science</i> , <b>2004</b> , 306, 679-82	33.3	326
40	Testing the linearity of the response to combined greenhouse gas and sulfate aerosol forcing. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	67
39	Recent developments in Holocene climate modelling. <i>Developments in Paleoenvironmental Research</i> , <b>2004</b> , 495-514		3
38	Simple indices of global climate variability and change: Part I Variability and correlation structure. <i>Climate Dynamics</i> , <b>2003</b> , 20, 491-502	4.2	57
37	Anthropogenic climate change for 1860 to 2100 simulated with the HadCM3 model under updated emissions scenarios. <i>Climate Dynamics</i> , <b>2003</b> , 20, 583-612	4.2	444
36	Probable causes of late twentieth century tropospheric temperature trends. <i>Climate Dynamics</i> , <b>2003</b> , 21, 573-591	4.2	34
35	Causes of atmospheric temperature change 1960-2000: A combined attribution analysis. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	29
34	A Comparison of the Variability of a Climate Model with Paleotemperature Estimates from a Network of Tree-Ring Densities. <i>Journal of Climate</i> , <b>2002</b> , 15, 1497-1515	4.4	47
33	Assessing the robustness of zonal mean climate change detection. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 26-1-26-4	4.9	13
32	Estimation of natural and anthropogenic contributions to twentieth century temperature change. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 10-1		181
31	Attribution of twentieth century temperature change to natural and anthropogenic causes. <i>Climate Dynamics</i> , <b>2001</b> , 17, 1-21	4.2	145
30	The internal climate variability of HadCM3, a version of the Hadley Centre coupled model without flux adjustments. <i>Climate Dynamics</i> , <b>2001</b> , 17, 61-81	4.2	318
29	Ascribing potential causes of recent trends in free atmosphere temperatures. <i>Atmospheric Science Letters</i> , <b>2001</b> , 2, 166-172	2.4	24
28	Rayleigh-Bnard convection as a tool for studying dust devils. <i>Atmospheric Science Letters</i> , <b>2001</b> , 2, 132-142	4.2	1
27	Natural and Anthropogenic Causes of Recent Climate Change <b>2001</b> , 275-290		1

26	Variability of Deep-Ocean Mass Transport: Spectral Shapes and Spatial Scales. <i>Journal of Climate</i> , <b>2000</b> , 13, 1916-1935	4.4	16
25	A Comparison of Surface Air Temperature Variability in Three 1000-Yr Coupled Ocean-Atmosphere Model Integrations. <i>Journal of Climate</i> , <b>2000</b> , 13, 513-537	4.4	55
24	Camelot: a database for climate model output. <i>Meteorological Applications</i> , <b>2000</b> , 7, 83-90	2.1	
23	Anthropogenic and natural causes of twentieth century temperature change. <i>Space Science Reviews</i> , <b>2000</b> , 94, 337-344	7.5	5
22	Modelled and observed variability in atmospheric vertical temperature structure. <i>Climate Dynamics</i> , <b>2000</b> , 16, 49-61	4.2	28
21	Optimal detection and attribution of climate change: sensitivity of results to climate model differences. <i>Climate Dynamics</i> , <b>2000</b> , 16, 737-754	4.2	45
20	Uncertainty levels in predicted patterns of anthropogenic climate change. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 15525-15542		16
19	External control of 20th century temperature by natural and anthropogenic forcings. <i>Science</i> , <b>2000</b> , 290, 2133-7	33.3	491
18	Anthropogenic and Natural Causes of Twentieth Century Temperature Change. <i>Space Sciences Series of ISSI</i> , <b>2000</b> , 337-344	0.1	
17	Causes of twentieth-century temperature change near the Earth's surface. <i>Nature</i> , <b>1999</b> , 399, 569-572	50.4	420
16	Checking for model consistency in optimal fingerprinting. <i>Climate Dynamics</i> , <b>1999</b> , 15, 419-434	4.2	296
15	Evaluation of the North Atlantic Oscillation as simulated by a coupled climate model. <i>Climate Dynamics</i> , <b>1999</b> , 15, 685-702	4.2	259
14	Detection and Attribution of Recent Climate Change: A Status Report. <i>Bulletin of the American Meteorological Society</i> , <b>1999</b> , 80, 2631-2659	6.1	116
13	High-resolution palaeoclimatic records for the last millennium: interpretation, integration and comparison with General Circulation Model control-run temperatures. <i>Holocene</i> , <b>1998</b> , 8, 455-471	2.6	645
12	Scale-Dependent Detection of Climate Change. <i>Journal of Climate</i> , <b>1998</b> , 11, 3282-3294	4.4	99
11	The second Hadley Centre coupled ocean-atmosphere GCM: model description, spinup and validation. <i>Climate Dynamics</i> , <b>1997</b> , 13, 103-134	4.2	520
10	Global and regional variability in a coupled AOGCM. <i>Climate Dynamics</i> , <b>1997</b> , 13, 303-323	4.2	41
9	Human Influence on the Atmospheric Vertical Temperature Structure: Detection and Observations. <i>Science</i> , <b>1996</b> , 274, 1170-3	33.3	211



8	A search for human influences on the thermal structure of the atmosphere. <i>Nature</i> , <b>1996</b> , 382, 39-46	50.4	320
7	Climate response to increasing levels of greenhouse gases and sulphate aerosols. <i>Nature</i> , <b>1995</b> , 376, 501-504	50.4	568
6	Ocean-Atmosphere interaction and climate modelling. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>1995</b> , 194, 287-289	2.1	
5	Simulation of El Niño-Southern Oscillation-like Variability in a Global AOGCM and its Response to CO <sub>2</sub> Increase. <i>Journal of Climate</i> , <b>1995</b> , 8, 1473-1502	4.4	77
4	Physical processes of summer extreme rainfall interannual variability in Eastern China—Part II: evaluation of CMIP6 models. <i>Climate Dynamics</i> , 1	4.2	1
3	Temperature response to external forcing in simulations and reconstructions of the last millennium		6
2	Attributing the 2015/2016 Amazon basin drought to anthropogenic influence. <i>Climate Resilience and Sustainability</i> ,		2
1	Anthropogenic emissions and urbanization increase risk of compound hot extremes in cities. <i>Nature Climate Change</i> ,	21.4	14