Simon F B Tett

List of Publications by Year
in descending order

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130	13,586	38742 50	22166 113
papers	citations	h-index	g-index

149	149	149	10188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Attributing the 2015/2016 Amazon basin drought to anthropogenic influence. Climate Resilience and Sustainability, 2022, 1, .	2.3	5
2	Does Model Calibration Reduce Uncertainty in Climate Projections?. Journal of Climate, 2022, 35, 2585-2602.	3.2	7
3	Physical processes of summer extreme rainfall interannual variability in Eastern Chinaâ€"part II: evaluation of CMIP6 models. Climate Dynamics, 2022, 59, 455-469.	3.8	2
4	Reduced Probability of 2020 Juneâ€"July Persistent Heavy Mei-yu Rainfall Event in the Middle to Lower Reaches of the Yangtze River Basin under Anthropogenic Forcing. Bulletin of the American Meteorological Society, 2022, 103, S83-S89.	3.3	10
5	A derivative-free optimisation method for global ocean biogeochemical models. Geoscientific Model Development, 2022, 15, 3537-3554.	3.6	5
6	Widespread Persistent Extreme Cold Events Over Southâ€East China: Mechanisms, Trends, and Attribution. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033447.	3.3	12
7	Anthropogenic Influence on 2019 Mayâ€"June Extremely Low Precipitation in Southwestern China. Bulletin of the American Meteorological Society, 2021, 102, S97-S102.	3.3	18
8	Carbon accounting for negative emissions technologies. Climate Policy, 2021, 21, 699-717.	5.1	33
9	Changes in regional wet heatwave in Eurasia during summer (1979â€"2017). Environmental Research Letters, 2021, 16, 064094.	5.2	18
10	Detectable anthropogenic changes in daily-scale circulations driving summer rainfall shifts over eastern China. Environmental Research Letters, 2021, 16, 074044.	5.2	6
11	Was the Extended Rainy Winter 2018/19 over the Middle and Lower Reaches of the Yangtze River Driven by Anthropogenic Forcing?. Bulletin of the American Meteorological Society, 2021, 102, S67-S73.	3.3	5
12	Anthropogenic Influences on Heavy Precipitation during the 2019 Extremely Wet Rainy Season in Southern China. Bulletin of the American Meteorological Society, 2021, 102, S103-S109.	3.3	12
13	Quantifying the contribution of an individual to making extreme weather events more likely. Environmental Research Letters, 2021, 16, 104040.	5.2	6
14	Anthropogenic emissions and urbanization increase risk of compound hot extremes in cities. Nature Climate Change, 2021, 11, 1084-1089.	18.8	117
15	Anthropogenic Influences on the Persistent Night-Time Heat Wave in Summer 2018 over Northeast China. Bulletin of the American Meteorological Society, 2020, 101, S83-S88.	3.3	21
16	Ocean and land forcing of the record-breaking Dust Bowl heatwaves across central United States. Nature Communications, 2020, 11, 2870.	12.8	13
17	Anthropogenic Influence on 2018 Summer Persistent Heavy Rainfall in Central Western China. Bulletin of the American Meteorological Society, 2020, 101, S65-S70.	3.3	19
18	Learning from the 2018 heatwave in the context of climate change: are high-temperature extremes important for adaptation in Scotland?. Environmental Research Letters, 2020, 15, 034051.	5.2	10

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19	Anthropogenically-driven increases in the risks of summertime compound hot extremes. Nature Communications, 2020, 11, 528.	12.8	146
20	Underestimated Change of Wetâ€Bulb Temperatures Over East and South China. Geophysical Research Letters, 2020, 47, e2019GL086140.	4.0	37
21	Understanding Interdependent Climate Change Risks Using a Serious Game. Bulletin of the American Meteorological Society, 2020, 101, E1279-E1300.	3.3	6
22	Homogenized Daily Relative Humidity Series in China during 1960â€“2017. Advances in Atmospheric Sciences, 2020, 37, 318-327.	4.3	42
23	Evaluation of the HadGEM3-A simulations in view of detection and attribution of human influence on extreme events in Europe. Climate Dynamics, 2019, 52, 1187-1210.	3.8	34
24	Can downwelling far-infrared radiances over Antarctica be estimated from mid-infrared information?. Atmospheric Chemistry and Physics, 2019, 19, 7927-7937.	4.9	3
25	Attribution of Detected Temperature Trends in Southeast Brazil. Geophysical Research Letters, 2019, 46, 8407-8414.	4.0	15
26	Disentangling the causes of the 1816 European year without a summer. Environmental Research Letters, 2019, 14, 094019.	5.2	13
27	Projected near term changes in the East Asian summer monsoon and its uncertainty. Environmental Research Letters, 2019, 14, 084038.	5.2	9
28	How much has urbanisation affected United Kingdom temperatures?. Atmospheric Science Letters, 2019, 20, e896.	1.9	12
29	The Local Aerosol Emission Effect on Surface Shortwave Radiation and Temperatures. Journal of Advances in Modeling Earth Systems, 2019, 11, 806-817.	3.8	15
30	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017â€“Like Heat Waves over Central Eastern China. Bulletin of the American Meteorological Society, 2019, 100, S91-S95.	3.3	21
31	Contribution of Anthropogenic Climate Change to Aprilâ€“May 2017 Heavy Precipitation over the Uruguay River Basin. Bulletin of the American Meteorological Society, 2019, 100, S37-S41.	3.3	14
32	Was the Cold European Winter of 2009/10 Modified by Anthropogenic Climate Change? An Attribution Study. Journal of Climate, 2018, 31, 3387-3410.	3.2	16
33	Attribution of extreme precipitation in the lower reaches of the Yangtze River during May 2016. Environmental Research Letters, 2018, 13, 014015.	5.2	34
34	Central-Eastern China Persistent Heat Waves: Evaluation of the AMIP Models. Journal of Climate, 2018, 31, 3609-3624.	3.2	10
35	Interpretations of the Paris climate target. Nature Geoscience, 2018, 11, 220-221.	12.9	33
36	Automated parameter tuning applied to sea ice in a global climate model. Climate Dynamics, 2018, 50, 51-65.	3.8	8

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37	Have human activities changed the frequencies of absolute extreme temperatures in eastern China?. Environmental Research Letters, 2018, 13, 014012.	5.2	10
38	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. Environmental Research Letters, 2018, 13, 114004.	5.2	23
39	Glacier change along West Antarctica's Marie Byrd Land Sector and links to inter-decadal atmosphereâ€“ocean variability. Cryosphere, 2018, 12, 2461-2479.	3.9	14
40	Storylines: an alternative approach to representing uncertainty in physical aspects of climate change. Climatic Change, 2018, 151, 555-571.	3.6	317
41	Anthropogenic Forcings and Associated Changes in Fire Risk in Western North America and Australia During 2015/16. Bulletin of the American Meteorological Society, 2018, 99, S60-S64.	3.3	6
42	Human Influence on the Record-breaking Cold Event in January of 2016 in Eastern China. Bulletin of the American Meteorological Society, 2018, 99, S118-S122.	3.3	42
43	Estimating the Transient Climate Response from Observed Warming. Journal of Climate, 2018, 31, 8645-8663.	3.2	37
44	Impacts of Anthropogenic Forcings and El NiÃ±o on Chinese Extreme Temperatures. Advances in Atmospheric Sciences, 2018, 35, 994-1002.	4.3	18
45	Correcting urban bias in largeâ€scale temperature records in China, 1980â€“2009. Geophysical Research Letters, 2017, 44, 401-408.	4.0	31
46	Summer heat waves over Eastern China: dynamical processes and trend attribution. Environmental Research Letters, 2017, 12, 024015.	5.2	71
47	Importance of the pre-industrial baseline for likelihood of exceeding Paris goals. Nature Climate Change, 2017, 7, 563-567.	18.8	93
48	What is the Uncertainty in Degree-Day Projections due to Different Calibration Methodologies?. Journal of Climate, 2017, 30, 9059-9075.	3.2	9
49	Calibrating climate models using inverse methods: case studies with HadAM3, HadAM3P and HadCM3. Geoscientific Model Development, 2017, 10, 3567-3589.	3.6	14
50	Global evaluation of gross primary productivity in the JULES land surface model v3.4.1. Geoscientific Model Development, 2017, 10, 2651-2670.	3.6	42
51	Fourâ€decade record of pervasive grounding line retreat along the Bellingshausen margin of West Antarctica. Geophysical Research Letters, 2016, 43, 5741-5749.	4.0	49
52	Using IASI to simulate the total spectrum of outgoing long-wave radiances. Atmospheric Chemistry and Physics, 2015, 15, 6561-6575.	4.9	11
53	Evaluation of mechanisms of hot and cold days in climate models over Central Europe. Environmental Research Letters, 2015, 10, 014002.	5.2	21
54	Multi-site evaluation of the JULES land surface model using global and local data. Geoscientific Model Development, 2015, 8, 295-316.	3.6	16

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55	Fossil fuels in a trillion tonne world. Nature Climate Change, 2015, 5, 419-423.	18.8	89
56	â€œAgro-meteorological indices and climate model uncertainty over the UKâ€• Climatic Change, 2015, 128, 113-126.	3.6	22
57	Near-term prediction of impact-relevant extreme temperature indices. Climatic Change, 2015, 132, 61-76.	3.6	7
58	How Much Has the North Atlantic Ocean Overturning Circulation Changed in the Last 50 Years?. Journal of Climate, 2014, 27, 6325-6342.	3.2	18
59	Using longwave HIRS radiances to test climate models. Climate Dynamics, 2014, 43, 1103-1127.	3.8	10
60	Small influence of solar variability on climate over the past millennium. Nature Geoscience, 2014, 7, 104-108.	12.9	162
61	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part I: Tuning. Journal of Climate, 2013, 26, 9348-9366.	3.2	19
62	Can Top-of-Atmosphere Radiation Measurements Constrain Climate Predictions? Part II: Climate Sensitivity. Journal of Climate, 2013, 26, 9367-9383.	3.2	23
63	Can a Decadal Forecasting System Predict Temperature Extreme Indices?*. Journal of Climate, 2013, 26, 3728-3744.	3.2	28
64	Separating Forced from Chaotic Climate Variability over the Past Millennium. Journal of Climate, 2013, 26, 6954-6973.	3.2	139
65	Obtaining diverse behaviors in a climate model without the use of flux adjustments. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2781-2793.	3.3	20
66	Discrepancies between the modeled and proxyâ€reconstructed response to volcanic forcing over the past millennium: Implications and possible mechanisms. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7617-7627.	3.3	23
67	Large-scale temperature response to external forcing in simulations and reconstructions of the last millennium. Climate of the Past, 2013, 9, 393-421.	3.4	131
68	Climate Modelâ€“Simulated Diurnal Cycles in HIRS Clear-Sky Brightness Temperatures. Journal of Climate, 2012, 25, 5845-5863.	3.2	8
69	A quantification of uncertainties in historical tropical tropospheric temperature trends from radiosondes. Journal of Geophysical Research, 2011, 116, .	3.3	48
70	Influence of human and natural forcing on European seasonal temperatures. Nature Geoscience, 2011, 4, 99-103.	12.9	118
71	Climatological Diurnal Cycles in Clear-Sky Brightness Temperatures from the High-Resolution Infrared Radiation Sounder (HIRS). Journal of Atmospheric and Oceanic Technology, 2011, 28, 1199-1205.	1.3	19
72	Critically Reassessing Tropospheric Temperature Trends from Radiosondes Using Realistic Validation Experiments. Journal of Climate, 2009, 22, 465-485.	3.2	61

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73	Fluctuations in autumnâ€“winter severe storms over the British Isles: 1920 to present. International Journal of Climatology, 2009, 29, 357-371.	3.5	65
74	Deriving a sea surface temperature record suitable for climate change research from the along-track scanning radiometers. Advances in Space Research, 2008, 41, 1-11.	2.6	47
75	Assessing Bias and Uncertainty in the HadAT-Adjusted Radiosonde Climate Record. Journal of Climate, 2008, 21, 817-832.	3.2	54
76	European climate response to tropical volcanic eruptions over the last half millennium. Geophysical Research Letters, 2007, 34, .	4.0	296
77	A global climatology of the diurnal variations in sea-surface temperature and implications for MSU temperature trends. Geophysical Research Letters, 2007, 34, .	4.0	70
78	Isolating the signal of ocean global warming. Geophysical Research Letters, 2007, 34, .	4.0	74
79	The Sun won't save us. New Scientist, 2006, 192, 27.	0.0	0
80	Two-hundred-fifty years of reconstructed and modeled tropical temperatures. Journal of Geophysical Research, 2006, 111, .	3.3	74
81	Uncertainty estimates in regional and global observed temperature changes: A new data set from 1850. Journal of Geophysical Research, 2006, 111, .	3.3	1,623
82	Improved Analyses of Changes and Uncertainties in Sea Surface Temperature Measured In Situ since the Mid-Nineteenth Century: The HadSST2 Dataset. Journal of Climate, 2006, 19, 446-469.	3.2	721
83	The impact of natural and anthropogenic forcings on climate and hydrology since 1550. Climate Dynamics, 2006, 28, 3-34.	3.8	106
84	Progress in Paleoclimate Modeling*. Journal of Climate, 2006, 19, 5031-5057.	3.2	63
85	Simulated Global-Mean Sea Level Changes over the Last Half-Millennium. Journal of Climate, 2006, 19, 4576-4591.	3.2	67
86	Chapter 1 Mediterranean climate variability over the last centuries: A review. Developments in Earth and Environmental Sciences, 2006, 4, 27-148.	0.1	105
87	Detecting and Attributing External Influences on the Climate System: A Review of Recent Advances. Journal of Climate, 2005, 18, 1291-1314.	3.2	198
88	An AOGCM simulation of the climate response to a volcanic super-eruption. Climate Dynamics, 2005, 25, 725-738.	3.8	97
89	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2005, 86, 1471-1480.	3.3	2
90	Revisiting radiosonde upper air temperatures from 1958 to 2002. Journal of Geophysical Research, 2005, 110, .	3.3	175

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91	Recent observed changes in severe storms over the United Kingdom and Iceland. Geophysical Research Letters, 2005, 32, .	4.0	90
92	Tropospheric temperature series from satellites. Nature, 2004, 432, 1-1.	27.8	11
93	Simple indices of global climate variability and change Part II: attribution of climate change during the twentieth century. Climate Dynamics, 2004, 22, 823-838.	3.8	60
94	Reconstructing Past Climate from Noisy Data. Science, 2004, 306, 679-682.	12.6	385
95	Testing the linearity of the response to combined greenhouse gas and sulfate aerosol forcing. Geophysical Research Letters, 2004, 31, .	4.0	76
96	Simple indices of global climate variability and change: Part I â€“ variability and correlation structure. Climate Dynamics, 2003, 20, 491-502.	3.8	66
97	Anthropogenic climate change for 1860 to 2100 simulated with the HadCM3 model under updated emissions scenarios. Climate Dynamics, 2003, 20, 583-612.	3.8	486
98	Probable causes of late twentieth century tropospheric temperature trends. Climate Dynamics, 2003, 21, 573-591.	3.8	43
99	Causes of atmospheric temperature change 1960-2000: A combined attribution analysis. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	36
100	A Comparison of the Variability of a Climate Model with Paleotemperature Estimates from a Network of Tree-Ring Densities. Journal of Climate, 2002, 15, 1497-1515.	3.2	56
101	Assessing the robustness of zonal mean climate change detection. Geophysical Research Letters, 2002, 29, 26-1-26-4.	4.0	16
102	Estimation of natural and anthropogenic contributions to twentieth century temperature change. Journal of Geophysical Research, 2002, 107, ACL 10-1.	3.3	216
103	Attribution of twentieth century temperature change to natural and anthropogenic causes. Climate Dynamics, 2001, 17, 1-21.	3.8	186
104	The internal climate variability of HadCM3, a version of the Hadley Centre coupled model without flux adjustments. Climate Dynamics, 2001, 17, 61-81.	3.8	348
105	Constraints on the temperature sensitivity of global soil respiration from the observed interannual variability in atmospheric CO2. Atmospheric Science Letters, 2001, 2, 166-172.	1.9	29
106	Ascribing potential causes of recent trends in free atmosphere temperatures. Atmospheric Science Letters, 2001, 2, 132-142.	1.9	1
107	Natural and Anthropogenic Causes of Recent Climate Change. , 2001, , 275-290.		1
108	Variability of Deep-Ocean Mass Transport: Spectral Shapes and Spatial Scales. Journal of Climate, 2000, 13, 1916-1935.	3.2	17

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109	A Comparison of Surface Air Temperature Variability in Three 1000-Yr Coupled Oceanâ€“Atmosphere Model Integrations. Journal of Climate, 2000, 13, 513-537.	3.2	62
110	Camelot â€" a database for climate model output. Meteorological Applications, 2000, 7, 83-90.	2.1	0
111	Anthropogenic and natural causes of twentieth century temperature change. Space Science Reviews, 2000, 94, 337-344.	8.1	7
112	Modelled and observed variability in atmospheric vertical temperature structure. Climate Dynamics, 2000, 16, 49-61.	3.8	35
113	Optimal detection and attribution of climate change: sensitivity of results to climate model differences. Climate Dynamics, 2000, 16, 737-754.	3.8	52
114	Uncertainty levels in predicted patterns of anthropogenic climate change. Journal of Geophysical Research, 2000, 105, 15525-15542.	3.3	20
115	External Control of 20th Century Temperature by Natural and Anthropogenic Forcings. Science, 2000, 290, 2133-2137.	12.6	568
116	Anthropogenic and Natural Causes of Twentieth Century Temperature Change. Space Sciences Series of ISSI, 2000, , 337-344.	0.0	0
117	Causes of twentieth-century temperature change near the Earth's surface. Nature, 1999, 399, 569-572.	27.8	477
118	Checking for model consistency in optimal fingerprinting. Climate Dynamics, 1999, 15, 419-434.	3.8	348
119	Evaluation of the North Atlantic Oscillation as simulated by a coupled climate model. Climate Dynamics, 1999, 15, 685-702.	3.8	286
120	Detection and Attribution of Recent Climate Change: A Status Report. Bulletin of the American Meteorological Society, 1999, 80, 2631-2659.	3.3	145
121	High-resolution palaeoclimatic records for the last millennium: interpretation, integration and comparison with General Circulation Model control-run temperatures. Holocene, 1998, 8, 455-471.	1.7	728
122	Scale-Dependent Detection of Climate Change. Journal of Climate, 1998, 11, 3282-3294.	3.2	108
123	The second Hadley Centre coupled ocean-atmosphere GCM: model description, spinup and validation. Climate Dynamics, 1997, 13, 103-134.	3.8	668
124	Global and regional variability in a coupled AOGCM. Climate Dynamics, 1997, 13, 303-323.	3.8	81
125	Human Influence on the Atmospheric Vertical Temperature Structure: Detection and Observations. Science, 1996, 274, 1170-1173.	12.6	245
126	A search for human influences on the thermal structure of the atmosphere. Nature, 1996, 382, 39-46.	27.8	397

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127	Climate response to increasing levels of greenhouse gases and sulphate aerosols. Nature, 1995, 376, 501-504.	27.8	688
128	Ocean-Atmosphere interaction and climate modelling. Journal of Experimental Marine Biology and Ecology, 1995, 194, 287-289.	1.5	0
129	Simulation of El NiÃ±o-Southern Oscillation-like Variability in a Global AOGCM and its Response to CO2Increase. Journal of Climate, 1995, 8, 1473-1502.	3.2	85
130	Anthropogenic Influences on 2019 July Precipitation Extremes Over the Midâ€“Lower Reaches of the Yangtze River. Frontiers in Environmental Science, 0, 8, .	3.3	10