

E M Fischer

List of Publications by Citations

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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.

97
papers

11,031
citations

45
h-index

105
g-index

138
ext. papers

13,665
ext. citations

9.5
avg, IF

7.12
L-index

#	Paper	IF	Citations
97	The hot summer of 2010: redrawing the temperature record map of Europe. <i>Science</i> , 2011 , 332, 220-4	33.3	923
96	Consistent geographical patterns of changes in high-impact European heatwaves. <i>Nature Geoscience</i> , 2010 , 3, 398-403	18.3	634
95	Anthropogenic contribution to global occurrence of heavy-precipitation and high-temperature extremes. <i>Nature Climate Change</i> , 2015 , 5, 560-564	21.4	619
94	Soil Moisture-Atmosphere Interactions during the 2003 European Summer Heat Wave. <i>Journal of Climate</i> , 2007 , 20, 5081-5099	4.4	573
93	Contribution of land-atmosphere coupling to recent European summer heat waves. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	432
92	A Review of the European Summer Heat Wave of 2003. <i>Critical Reviews in Environmental Science and Technology</i> , 2010 , 40, 267-306	11.1	409
91	Understanding the regional pattern of projected future changes in extreme precipitation. <i>Nature Climate Change</i> , 2017 , 7, 423-427	21.4	393
90	Marine heatwaves under global warming. <i>Nature</i> , 2018 , 560, 360-364	50.4	393
89	Differential climate impacts for policy-relevant limits to global warming: the case of 1.5 °C and 2 °C. <i>Earth System Dynamics</i> , 2016 , 7, 327-351	4.8	377
88	Robust spatially aggregated projections of climate extremes. <i>Nature Climate Change</i> , 2013 , 3, 1033-1038	11.4	339
87	Science and policy characteristics of the Paris Agreement temperature goal. <i>Nature Climate Change</i> , 2016 , 6, 827-835	21.4	338
86	Observed heavy precipitation increase confirms theory and early models. <i>Nature Climate Change</i> , 2016 , 6, 986-991	21.4	295
85	Top ten European heatwaves since 1950 and their occurrence in the coming decades. <i>Environmental Research Letters</i> , 2015 , 10, 124003	6.2	264
84	European climate response to tropical volcanic eruptions over the last half millennium. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	258
83	Reconciling controversies about the 'global warming hiatus' <i>Nature</i> , 2017 , 545, 41-47	50.4	252
82	CMIP5 Climate Model Analyses: Climate Extremes in the United States. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 571-583	6.1	233
81	Observations: Atmosphere and Surface 2014 , 159-254		218

80	A scientific critique of the two-degree climate change target. <i>Nature Geoscience</i> , 2016 , 9, 13-18	18.3	209
79	Future changes in daily summer temperature variability: driving processes and role for temperature extremes. <i>Climate Dynamics</i> , 2009 , 33, 917-935	4.2	190
78	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. <i>Geoscientific Model Development</i> , 2017 , 10, 571-583	6.3	162
77	Detection of spatially aggregated changes in temperature and precipitation extremes. <i>Geophysical Research Letters</i> , 2014 , 41, 547-554	4.9	156
76	Frequency of extreme precipitation increases extensively with event rareness under global warming. <i>Scientific Reports</i> , 2019 , 9, 16063	4.9	150
75	Robust projections of combined humidity and temperature extremes. <i>Nature Climate Change</i> , 2013 , 3, 126-130	21.4	148
74	Past warming trend constrains future warming in CMIP6 models. <i>Science Advances</i> , 2020 , 6, eaaz9549	14.3	143
73	Extreme heat waves under 1.5 °C and 2 °C global warming. <i>Environmental Research Letters</i> , 2018 , 13, 054006	6.2	140
72	Percentile indices for assessing changes in heavy precipitation events. <i>Climatic Change</i> , 2016 , 137, 201-216	14.5	140
71	A climate model projection weighting scheme accounting for performance and interdependence. <i>Geophysical Research Letters</i> , 2017 , 44, 1909	4.9	135
70	Contrasting urban and rural heat stress responses to climate change. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	134
69	Models agree on forced response pattern of precipitation and temperature extremes. <i>Geophysical Research Letters</i> , 2014 , 41, 8554-8562	4.9	111
68	Changes in European summer temperature variability revisited. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	91
67	Partitioning climate projection uncertainty with multiple large ensembles and CMIP5/6. <i>Earth System Dynamics</i> , 2020 , 11, 491-508	4.8	88
66	Chapter 1 Mediterranean climate variability over the last centuries: A review. <i>Developments in Earth and Environmental Sciences</i> , 2006 , 4, 27-148		87
65	Climate change now detectable from any single day of weather at global scale. <i>Nature Climate Change</i> , 2020 , 10, 35-41	21.4	82
64	The timing of anthropogenic emergence in simulated climate extremes. <i>Environmental Research Letters</i> , 2015 , 10, 094015	6.2	81
63	Drought-induced decline in Mediterranean truffle harvest. <i>Nature Climate Change</i> , 2012 , 2, 827-829	21.4	78

62	Emerging trends in heavy precipitation and hot temperature extremes in Switzerland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2626-2637	4.4	78
61	Poorest countries experience earlier anthropogenic emergence of daily temperature extremes. <i>Environmental Research Letters</i> , 2016 , 11, 055007	6.2	77
60	Improved simulation of extreme precipitation in a high-resolution atmosphere model. <i>Geophysical Research Letters</i> , 2013 , 40, 5803-5808	4.9	76
59	Site-Specific Conjugation of Monomethyl Auristatin E to Anti-CD30 Antibodies Improves Their Pharmacokinetics and Therapeutic Index in Rodent Models. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1863-71	5.6	68
58	Separating climate change signals into thermodynamic, lapse-rate and circulation effects: theory and application to the European summer climate. <i>Climate Dynamics</i> , 2017 , 48, 3425-3440	4.2	67
57	Influence of blocking on Northern European and Western Russian heatwaves in large climate model ensembles. <i>Environmental Research Letters</i> , 2018 , 13, 054015	6.2	66
56	Will Half a Degree Make a Difference? Robust Projections of Indices of Mean and Extreme Climate in Europe Under 1.5°C, 2°C, and 3°C Global Warming. <i>Geophysical Research Letters</i> , 2018 , 45, 935-944	4.9	65
55	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60
54	Warming of hot extremes alleviated by expanding irrigation. <i>Nature Communications</i> , 2020 , 11, 290	17.4	52
53	Emergence of heat extremes attributable to anthropogenic influences. <i>Geophysical Research Letters</i> , 2016 , 43, 3438-3443	4.9	46
52	Detection of a Climate Change Signal in Extreme Heat, Heat Stress, and Cold in Europe From Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 8363-8374	4.9	43
51	Event-to-event intensification of the hydrologic cycle from 1.5 °C to a 2 °C warmer world. <i>Scientific Reports</i> , 2019 , 9, 3483	4.9	42
50	Heat waves in Portugal: Current regime, changes in future climate and impacts on extreme wildfires. <i>Science of the Total Environment</i> , 2018 , 631-632, 534-549	10.2	40
49	Increasing probability of record-shattering climate extremes. <i>Nature Climate Change</i> , 2021 , 11, 689-695	21.4	40
48	Prospects and Caveats of Weighting Climate Models for Summer Maximum Temperature Projections Over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4509-4526	4.4	39
47	Quantifying uncertainties in projections of extremes in a perturbed land surface parameter experiment. <i>Climate Dynamics</i> , 2011 , 37, 1381-1398	4.2	38
46	The effect of univariate bias adjustment on multivariate hazard estimates. <i>Earth System Dynamics</i> , 2019 , 10, 31-43	4.8	35
45	Biased Estimates of Changes in Climate Extremes From Prescribed SST Simulations. <i>Geophysical Research Letters</i> , 2018 , 45, 8500-8509	4.9	34

44	Differential climate impacts for policy-relevant limits to global warming: the case of 1.5 °C and 2 °C		31
43	The record-breaking compound hot and dry 2018 growing season in Germany. <i>Weather and Climate Extremes</i> , 2020 , 29, 100270	6	31
42	Applying big data beyond small problems in climate research. <i>Nature Climate Change</i> , 2019 , 9, 196-202	21.4	31
41	Impacts of half a degree additional warming on the Asian summer monsoon rainfall characteristics. <i>Environmental Research Letters</i> , 2018 , 13, 044033	6.2	29
40	The usefulness of different realizations for the model evaluation of regional trends in heat waves. <i>Geophysical Research Letters</i> , 2013 , 40, 5793-5797	4.9	29
39	Declining pine growth in Central Spain coincides with increasing diurnal temperature range since the 1970s. <i>Global and Planetary Change</i> , 2013 , 107, 177-185	4.2	26
38	The influence of natural variability and interpolation errors on bias characterization in RCM simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,180	4.4	26
37	Emergent Constraints in Climate Projections: A Case Study of Changes in High-Latitude Temperature Variability. <i>Journal of Climate</i> , 2017 , 30, 3655-3670	4.4	25
36	Uncovering the Forced Climate Response from a Single Ensemble Member Using Statistical Learning. <i>Journal of Climate</i> , 2019 , 32, 5677-5699	4.4	25
35	Reconciling observed and modeled temperature and precipitation trends over Europe by adjusting for circulation variability. <i>Geophysical Research Letters</i> , 2016 , 43, 8189-8198	4.9	24
34	Changing seasonality of moderate and extreme precipitation events in the Alps. <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 2047-2056	3.9	24
33	Changes in extremely hot days under stabilized 1.5 and 2.0 °C global warming scenarios as simulated by the HAPPI multi-model ensemble. <i>Earth System Dynamics</i> , 2018 , 9, 299-311	4.8	24
32	Extreme heat-related mortality avoided under Paris Agreement goals. <i>Nature Climate Change</i> , 2018 , 8, 551-553	21.4	24
31	Robust changes in tropical rainy season length at 1.5 °C and 2 °C. <i>Environmental Research Letters</i> , 2018 , 13, 064024	6.2	23
30	The influence of internal climate variability on heatwave frequency trends. <i>Environmental Research Letters</i> , 2017 , 12, 044005	6.2	22
29	Global Freshwater Availability Below Normal Conditions and Population Impact Under 1.5 and 2 °C Stabilization Scenarios. <i>Geophysical Research Letters</i> , 2018 , 45, 9803-9813	4.9	21
28	Contributions of atmospheric circulation variability and data coverage bias to the warming hiatus. <i>Geophysical Research Letters</i> , 2015 , 42, 2385-2391	4.9	20
27	Large-Scale Atmospheric Circulation Driving Extreme Climate Events in the Mediterranean and its Related Impacts 2012 , 347-417		20

26	Development of Future Heatwaves for Different Hazard Thresholds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032070	4.4	19
25	Midlatitude atmospheric circulation responses under 1.5 and 2.0 °C warming and implications for regional impacts. <i>Earth System Dynamics</i> , 2018 , 9, 359-382	4.8	19
24	Comparing Australian heat waves in the CMIP5 models through cluster analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3266-3281	4.4	16
23	Models are likely to underestimate increase in heavy rainfall in the extratropical regions with high rainfall intensity. <i>Geophysical Research Letters</i> , 2017 , 44, 7401-7409	4.9	16
22	Intensification of summer precipitation with shorter time-scales in Europe. <i>Environmental Research Letters</i> , 2019 , 14, 124050	6.2	16
21	Potential to Constrain Projections of Hot Temperature Extremes. <i>Journal of Climate</i> , 2017 , 30, 9949-9964	4.4	15
20	Future local climate unlike currently observed anywhere. <i>Environmental Research Letters</i> , 2017 , 12, 084064	4.4	14
19	Observed extreme precipitation trends and scaling in Central Europe. <i>Weather and Climate Extremes</i> , 2020 , 29, 100266	6	13
18	The potential of pattern scaling for projecting temperature-related extreme indices. <i>International Journal of Climatology</i> , 2014 , 34, 18-26	3.5	13
17	Lack of Change in the Projected Frequency and Persistence of Atmospheric Circulation Types Over Central Europe. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086132	4.9	11
16	Volcanic-induced global monsoon drying modulated by diverse El Niño responses. <i>Science Advances</i> , 2020 , 6,	14.3	11
15	Improved Consistency of Climate Projections over Europe after Accounting for Atmospheric Circulation Variability. <i>Journal of Climate</i> , 2017 , 30, 7271-7291	4.4	11
14	Comparing interannual variability in three regional single-model initial-condition large ensembles (SMILES) over Europe. <i>Earth System Dynamics</i> , 2020 , 11, 1013-1031	4.8	10
13	Partitioning climate projection uncertainty with multiple Large Ensembles and CMIP5/6 2020 ,		7
12	Sensitivity of European extreme daily temperature return levels to projected changes in mean and variance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3032-3044	4.4	7
11	Changes in climate extremes in observations and climate model simulations. From the past to the future 2020 , 31-57		6
10	Limiting global warming to 1.5 °C will lower increases in inequalities of four hazard indicators of climate change. <i>Environmental Research Letters</i> , 2019 , 14, 124022	6.2	5
9	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6		4

8	Late 1980s abrupt cold season temperature change in Europe consistent with circulation variability and long-term warming. <i>Environmental Research Letters</i> , 2020 , 15, 094056	6.2	4
7	Very rare heat extremes: quantifying and understanding using ensemble re-initialization. <i>Journal of Climate</i> , 2021 , 1-46	4.4	3
6	Changes in extremely hot days under stabilized 1.5 °C and 2.0 °C global warming scenarios as simulated by the HAPPI multi-model ensemble 2017 ,		2
5	On the Controlling Factors for Globally Extreme Humid Heat. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL096082	4.9	2
4	Representing the Urban Heat Island Effect in Future Climates		2
3	Urban multi-model climate projections of intense heat in Switzerland. <i>Climate Services</i> , 2021 , 22, 1002283.8		1
2	A New Framework for Identifying and Investigating Seasonal Climate Extremes. <i>Journal of Climate</i> , 2021 , 34, 7761-7782	4.4	1
1	Robust detection of forced warming in the presence of potentially large climate variability. <i>Science Advances</i> , 2021 , 7, eabh4429	14.3	0