

Julien Cattiaux

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,722
citations

279798

23
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

4141
citing authors

#	ARTICLE	IF	CITATIONS
1	Northern Hemisphere atmospheric stilling partly attributed to an increase in surface roughness. <i>Nature Geoscience</i> , 2010, 3, 756-761.	12.9	581
2	Evaluation of CMIP6 DECK Experiments With CNRMâ€œCM6â€œ1. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2177-2213.	3.8	494
3	Winter 2010 in Europe: A cold extreme in a warming climate. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	379
4	European temperatures in CMIP5: origins of present-day biases and future uncertainties. <i>Climate Dynamics</i> , 2013, 41, 2889-2907.	3.8	157
5	Changes of western European heat wave characteristics projected by the CMIP5 ensemble. <i>Climate Dynamics</i> , 2015, 45, 1601-1616.	3.8	100
6	Respective roles of direct GHG radiative forcing and induced Arctic sea ice loss on the Northern Hemisphere atmospheric circulation. <i>Climate Dynamics</i> , 2017, 49, 3693-3713.	3.8	77
7	Sinuosity of midlatitude atmospheric flow in a warming world. <i>Geophysical Research Letters</i> , 2016, 43, 8259-8268.	4.0	74
8	Changes in North American Atmospheric Circulation and Extreme Weather: Influence of Arctic Amplification and Northern Hemisphere Snow Cover. <i>Journal of Climate</i> , 2017, 30, 4317-4333.	3.2	71
9	Opposite CMIP3/CMIP5 trends in the wintertime Northern Annular Mode explained by combined local sea ice and remote tropical influences. <i>Geophysical Research Letters</i> , 2013, 40, 3682-3687.	4.0	63
10	Disruption of the European climate seasonal clock in a warming world. <i>Nature Climate Change</i> , 2016, 6, 589-594.	18.8	47
11	The CNRM Global Atmosphere Model ARPEGEâ€œClimat 6.3: Description and Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002075.	3.8	46
12	Analyses of the Northern European Summer Heatwave of 2018. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S35-S40.	3.3	44
13	Dynamics of future seasonal temperature trends and extremes in Europe: a multi-model analysis from CMIP3. <i>Climate Dynamics</i> , 2012, 38, 1949-1964.	3.8	43
14	Defining Single Extreme Weather Events in a Climate Perspective. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1557-1568.	3.3	42
15	Projected increase in diurnal and interdiurnal variations of European summer temperatures. <i>Geophysical Research Letters</i> , 2015, 42, 899-907.	4.0	39
16	Late Twenty-First-Century Changes in the Midlatitude Atmospheric Circulation in the CESM Large Ensemble. <i>Journal of Climate</i> , 2017, 30, 5943-5960.	3.2	39
17	Drivers of the Northern Extratropical Eddyâ€œDriven Jet Change in CMIP5 and CMIP6 Models. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086695.	4.0	38
18	European cold winter 2009-2010: How unusual in the instrumental record and how reproducible in the ARPEGE-Climat model?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	35

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19	Midlatitude daily summer temperatures reshaped by soil moisture under climate change. <i>Geophysical Research Letters</i> , 2016, 43, 812-818.	4.0	35
20	Towards a better understanding of changes in wintertime cold extremes over Europe: a pilot study with CNRM and IPSL atmospheric models. <i>Climate Dynamics</i> , 2013, 40, 2433-2445.	3.8	32
21	Projected squeezing of the wintertime North-Atlantic jet. <i>Environmental Research Letters</i> , 2018, 13, 074016.	5.2	29
22	Evaluation and response of winter cold spells over Western Europe in CMIP5 models. <i>Climate Dynamics</i> , 2013, 41, 3025-3037.	3.8	28
23	Origins of the extremely warm European fall of 2006. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	23
24	North-Atlantic SST amplified recent wintertime European land temperature extremes and trends. <i>Climate Dynamics</i> , 2011, 36, 2113-2128.	3.8	23
25	Climate variability and trends in downscaled high-resolution simulations and projections over Metropolitan France. <i>Climate Dynamics</i> , 2013, 41, 1419-1437.	3.8	22
26	North-Atlantic dynamics and European temperature extremes in the IPSL model: sensitivity to atmospheric resolution. <i>Climate Dynamics</i> , 2013, 40, 2293-2310.	3.8	21
27	Trends of atmospheric circulation during singular hot days in Europe. <i>Environmental Research Letters</i> , 2018, 13, 054007.	5.2	21
28	Impact of Tropical Cyclones on Inhabited Areas of the SWIO Basin at Present and Future Horizons. Part 1: Overview and Observing Component of the Research Project RENOVRIK-CYCLONE. <i>Atmosphere</i> , 2021, 12, 544.	2.3	16
29	Comparison of hidden and observed regime-switching autoregressive models for (<i>u</i>,<i>v</i>)-components of wind fields in the northeastern Atlantic. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2016, 2, 1-16.	0.9	16
30	Describing the Relationship between a Weather Event and Climate Change: A New Statistical Approach. <i>Journal of Climate</i> , 2020, 33, 6297-6314.	3.2	13
31	Projected Changes in the Southern Indian Ocean Cyclone Activity Assessed from High-Resolution Experiments and CMIP5 Models. <i>Journal of Climate</i> , 2020, 33, 4975-4991.	3.2	12
32	ReNovRisk: a multidisciplinary programme to study the cyclonic risks in the South-West Indian Ocean. <i>Natural Hazards</i> , 2021, 107, 1191-1223.	3.4	9
33	Recent Trends in the Recurrence of North Atlantic Atmospheric Circulation Patterns. <i>Complexity</i> , 2018, 2018, 1-8.	1.6	8
34	Fastâ€Forward to Perturbed Equilibrium Climate. <i>Geophysical Research Letters</i> , 2019, 46, 8969-8975.	4.0	8
35	AMOC and summer sea ice as key drivers of the spread in mid-holocene winter temperature patterns over Europe in PMIP3 models. <i>Global and Planetary Change</i> , 2020, 184, 103055.	3.5	8
36	Tracking Changes in Climate Sensitivity in CNRM Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002190.	3.8	7

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37	How does large-scale nudging in a regional climate model contribute to improving the simulation of weather regimes and seasonal extremes over North America?. <i>Climate Dynamics</i> , 2016, 46, 929-948.	3.8	6
38	The Polar Stratosphere as an Arbiter of the Projected Tropical Versus Polar Tug of War. <i>Geophysical Research Letters</i> , 2019, 46, 9261-9270.	4.0	6
39	Robustness and drivers of the Northern Hemisphere extratropical atmospheric circulation response to a CO ₂ -induced warming in CNRM-CM6-1. <i>Climate Dynamics</i> , 2020, 54, 2267-2285.	3.8	5
40	Impact of Tropical Cyclones on Inhabited Areas of the SWIO Basin at Present and Future Horizons. Part 2: Modeling Component of the Research Program RENOVIRISK-CYCLONE. <i>Atmosphere</i> , 2021, 12, 689.	2.3	5