

Len C Shaffrey

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,740
citations

147801

31
h-index

133252

59
g-index

88
all docs

88
docs citations

88
times ranked

4301
citing authors

#	ARTICLE	IF	CITATIONS
1	Robustness of serial clustering of extratropical cyclones to the choice of tracking method. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 32204.	1.7	16
2	The Response of Northern Hemisphere Polar Lows to Climate Change in a 25-km High-Resolution Global Climate Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	4
3	Recent decadal weakening of the summer Eurasian westerly jet attributable to anthropogenic aerosol emissions. <i>Nature Communications</i> , 2022, 13, 1148.	12.8	22
4	What Governs the Interannual Variability of Recurring North Atlantic Tropical Cyclones?. <i>Journal of Climate</i> , 2022, 35, 3627-3641.	3.2	6
5	Has the risk of a 1976 north-west European summer drought and heatwave event increased since the 1970s because of climate change?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 4143-4162.	2.7	6
6	How will climate change impact North Atlantic storms?. <i>Weather</i> , 2021, 76, 329-329.	0.7	1
7	The role of secondary cyclones and cyclone families for the North Atlantic storm track and clustering over western Europe. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1184-1205.	2.7	12
8	The Response of the Northern Hemisphere Storm Tracks and Jet Streams to Climate Change in the CMIP3, CMIP5, and CMIP6 Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032701.	3.3	103
9	How Important Are Post-Tropical Cyclones for European Windstorm Risk?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089853.	4.0	25
10	The impacts of climate change on the winter water cycle of the western Himalaya. <i>Climate Dynamics</i> , 2020, 55, 2287-2307.	3.8	11
11	Attribution of 2012 extreme climate events: does air-sea interaction matter?. <i>Climate Dynamics</i> , 2020, 55, 1225-1245.	3.8	2
12	An inter-comparison of Arctic synoptic scale storms between four global reanalysis datasets. <i>Climate Dynamics</i> , 2020, 54, 2777-2795.	3.8	27
13	Development, Amplification, and Decay of Atlantic/European Summer Weather Patterns Linked to Spring North Atlantic Sea Surface Temperatures. <i>Journal of Climate</i> , 2020, 33, 5939-5951.	3.2	16
14	Seasonal Predictability of the Winter North Atlantic Oscillation From a Jet Stream Perspective. <i>Geophysical Research Letters</i> , 2019, 46, 10159-10167.	4.0	27
15	Impact of air-sea coupling on Northern Hemisphere summer climate and the monsoon-desert teleconnection. <i>Climate Dynamics</i> , 2019, 53, 5063-5078.	3.8	3
16	From Atmospheric Dynamics to Insurance Losses: An Interdisciplinary Workshop on European Storms. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, ES175-ES178.	3.3	6
17	Enhanced Climate Change Response of Wintertime North Atlantic Circulation, Cyclonic Activity, and Precipitation in a 25-km-Resolution Global Atmospheric Model. <i>Journal of Climate</i> , 2019, 32, 7763-7781.	3.2	19
18	Falling Trend of Western Disturbances in Future Climate Simulations. <i>Journal of Climate</i> , 2019, 32, 5037-5051.	3.2	31

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19	Representation of Western Disturbances in CMIP5 Models. <i>Journal of Climate</i> , 2019, 32, 1997-2011.	3.2	20
20	Multiple perspectives on the attribution of the extreme European summer of 2012 to climate change. <i>Climate Dynamics</i> , 2018, 50, 3537-3555.	3.8	15
21	Observational evidence of European summer weather patterns predictable from spring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 59-63.	7.1	42
22	Extreme Daily Rainfall in Pakistan and North India: Scale Interactions, Mechanisms, and Precursors. <i>Monthly Weather Review</i> , 2018, 146, 1005-1022.	1.4	46
23	Decadal prediction of the North Atlantic subpolar gyre in the HiGEM high-resolution climate model. <i>Climate Dynamics</i> , 2018, 50, 921-937.	3.8	30
24	The evolution, seasonality and impacts of western disturbances. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 278-290.	2.7	115
25	Improved seasonal prediction of UK regional precipitation using atmospheric circulation. <i>International Journal of Climatology</i> , 2018, 38, e437.	3.5	27
26	Mean and extreme precipitation over European river basins better simulated in a 25â€‰km AGCM. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3933-3950.	4.9	21
27	A critical assessment of the long-term changes in the wintertime surface Arctic Oscillation and Northern Hemisphere storminess in the ERA20C reanalysis. <i>Environmental Research Letters</i> , 2018, 13, 094004.	5.2	29
28	The role of serial European windstorm clustering for extreme seasonal losses as determined from multi-centennial simulations of high-resolution global climate model data. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2991-3006.	3.6	24
29	The effect of South American biomass burning aerosol emissions on the regional climate. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5321-5342.	4.9	62
30	An Intercomparison of Skill and Overconfidence/Underconfidence of the Wintertime North Atlantic Oscillation in Multimodel Seasonal Forecasts. <i>Geophysical Research Letters</i> , 2018, 45, 7808-7817.	4.0	83
31	Decadal predictions with the HiGEM high resolution global coupled climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2017, 48, 297-311.	3.8	16
32	Understanding the rapid summer warming and changes in temperature extremes since the mid-1990s over Western Europe. <i>Climate Dynamics</i> , 2017, 48, 1537-1554.	3.8	86
33	Using satellite and reanalysis data to evaluate the representation of latent heating in extratropical cyclones in a climate model. <i>Climate Dynamics</i> , 2017, 48, 2255-2278.	3.8	27
34	Rossby wave breaking, the upper level jet, and serial clustering of extratropical cyclones in western Europe. <i>Geophysical Research Letters</i> , 2017, 44, 514-521.	4.0	23
35	Attribution of Forced Decadal Climate Change in Coupled and Uncoupled Oceanâ€“Atmosphere Model Experiments. <i>Journal of Climate</i> , 2017, 30, 6203-6223.	3.2	40
36	The role of cyclone clustering during the stormy winter of 2013/2014. <i>Weather</i> , 2017, 72, 187-192.	0.7	45

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37	The Resolution Sensitivity of Northern Hemisphere Blocking in Four 25-km Atmospheric Global Circulation Models. <i>Journal of Climate</i> , 2017, 30, 337-358.	3.2	71
38	Quantifying the increasing sensitivity of power systems to climate variability. <i>Environmental Research Letters</i> , 2016, 11, 124025.	5.2	83
39	The response of high-impact blocking weather systems to climate change. <i>Geophysical Research Letters</i> , 2016, 43, 7250-7258.	4.0	36
40	Can climate models represent the precipitation associated with extratropical cyclones?. <i>Climate Dynamics</i> , 2016, 47, 679-695.	3.8	29
41	Can a climate model reproduce extreme regional precipitation events over England and Wales?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1466-1472.	2.7	9
42	Atmospheric response in summer linked to recent Arctic sea ice loss. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2070-2076.	2.7	48
43	Serial clustering of extratropical cyclones in a multi-model ensemble of historical and future simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 3076-3087.	2.7	22
44	Can reanalyses represent extreme precipitation over England and Wales?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1114-1120.	2.7	9
45	Extratropical cyclones and the projected decline of winter Mediterranean precipitation in the CMIP5 models. <i>Climate Dynamics</i> , 2015, 45, 1727-1738.	3.8	88
46	Deconstructing the climate change response of the Northern Hemisphere wintertime storm tracks. <i>Climate Dynamics</i> , 2015, 45, 2847-2860.	3.8	58
47	A process-based analysis of ocean heat uptake in an AOGCM with an eddy-permitting ocean component. <i>Climate Dynamics</i> , 2015, 45, 3205-3226.	3.8	33
48	Atmospheric Impact of Arctic Sea Ice Loss in a Coupled Ocean-Atmosphere Simulation*. <i>Journal of Climate</i> , 2015, 28, 9606-9622.	3.2	32
49	The XWS open access catalogue of extreme European windstorms from 1979 to 2012. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2487-2501.	3.6	112
50	Equator-to-pole temperature differences and the extra-tropical storm track responses of the CMIP5 climate models. <i>Climate Dynamics</i> , 2014, 43, 1171-1182.	3.8	148
51	Can Polar Lows be Objectively Identified and Tracked in the ECMWF Operational Analysis and the ERA-Interim Reanalysis?. <i>Monthly Weather Review</i> , 2014, 142, 2596-2608.	1.4	74
52	The sensitivity of the tropical circulation and Maritime Continent precipitation to climate model resolution. <i>Climate Dynamics</i> , 2014, 42, 2455-2468.	3.8	57
53	The Ability of CMIP5 Models to Simulate North Atlantic Extratropical Cyclones*. <i>Journal of Climate</i> , 2013, 26, 5379-5396.	3.2	209
54	Statistical decadal predictions for sea surface temperatures: a benchmark for dynamical GCM predictions. <i>Climate Dynamics</i> , 2013, 41, 917-935.	3.8	25

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55	A Multimodel Assessment of Future Projections of North Atlantic and European Extratropical Cyclones in the CMIP5 Climate Models*. <i>Journal of Climate</i> , 2013, 26, 5846-5862.	3.2	271
56	Simple Uncertainty Frameworks for Selecting Weighting Schemes and Interpreting Multimodel Ensemble Climate Change Experiments. <i>Journal of Climate</i> , 2013, 26, 4017-4037.	3.2	58
57	The effect of regional changes in anthropogenic aerosols on rainfall of the East Asian Summer Monsoon. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1521-1534.	4.9	92
58	Examining reliability of seasonal to decadal sea surface temperature forecasts: The role of ensemble dispersion. <i>Geophysical Research Letters</i> , 2013, 40, 5770-5775.	4.0	38
59	How much Northern Hemisphere precipitation is associated with extratropical cyclones?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	234
60	How large are projected 21st century storm track changes?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	79
61	The impact of North Atlantic sea surface temperature errors on the simulation of North Atlantic European region climate. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1774-1783.	2.7	61
62	Northern Hemisphere Extratropical Cyclones in a Warming Climate in the HiGEM High-Resolution Climate Model. <i>Journal of Climate</i> , 2011, 24, 5336-5352.	3.2	97
63	High frequency variability of the Atlantic meridional overturning circulation. <i>Ocean Science</i> , 2011, 7, 471-486.	3.4	28
64	Large-scale and synoptic meteorology in the south-east Pacific during the observations campaign VOCALS-REx in austral Spring 2008. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4977-5009.	4.9	32
65	Can Climate Models Capture the Structure of Extratropical Cyclones?. <i>Journal of Climate</i> , 2010, 23, 1621-1635.	3.2	151
66	Methods and Resources for Climate Impacts Research. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 836-848.	3.3	39
67	U.K. HiGEM: The New U.K. High-Resolution Global Environment Model – Model Description and Basic Evaluation. <i>Journal of Climate</i> , 2009, 22, 1861-1896.	3.2	214
68	Bjerknes Compensation and the Decadal Variability of the Energy Transports in a Coupled Climate Model. <i>Journal of Climate</i> , 2006, 19, 1167-1181.	3.2	84
69	The Interannual Variability of Energy Transports within and over the Atlantic Ocean in a Coupled Climate Model. <i>Journal of Climate</i> , 2004, 17, 1433-1448.	3.2	24
70	The European Climate Research Alliance (ECRA): Collaboration from bottom-up. <i>Advances in Geosciences</i> , 0, 46, 1-10.	12.0	1