

Christian M. Grams

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8840495/publications.pdf>

Version: 2024-02-01

43
papers

2,275
citations

257450

24
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Balancing Europe's wind-power output through spatial deployment informed by weather regimes. <i>Nature Climate Change</i> , 2017, 7, 557-562.	18.8	236
2	Importance of latent heat release in ascending air streams for atmospheric blocking. <i>Nature Geoscience</i> , 2015, 8, 610-614.	12.9	183
3	The key role of diabatic processes in modifying the upper-tropospheric wave guide: a North Atlantic case-study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 2174-2193.	2.7	177
4	Uplift of Saharan dust south of the intertropical discontinuity. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	113
5	Atmospheric processes triggering the central European floods in June 2013. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1691-1702.	3.6	111
6	Influence of blocking on Northern European and Western Russian heatwaves in large climate model ensembles. <i>Environmental Research Letters</i> , 2018, 13, 054015.	5.2	111
7	Global Climatologies of Eulerian and Lagrangian Flow Features based on ERA-Interim. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1739-1748.	3.3	108
8	The North Atlantic Waveguide and Downstream Impact Experiment. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1607-1637.	3.3	105
9	The Extratropical Transition of Tropical Cyclones. Part I: Cyclone Evolution and Direct Impacts. <i>Monthly Weather Review</i> , 2017, 145, 4317-4344.	1.4	102
10	The Key Role of Diabatic Outflow in Amplifying the Midlatitude Flow: A Representative Case Study of Weather Systems Surrounding Western North Pacific Extratropical Transition. <i>Monthly Weather Review</i> , 2016, 144, 3847-3869.	1.4	75
11	The link between eddy-driven jet variability and weather regimes in the North Atlantic-European sector. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2960-2972.	2.7	64
12	The Atlantic inflow to the Saharan heat low: observations and modelling. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 125-140.	2.7	59
13	An atmospheric dynamics perspective on the amplification and propagation of forecast error in numerical weather prediction models: A case study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 2577-2591.	2.7	58
14	The Extratropical Transition of Tropical Cyclones. Part II: Interaction with the Midlatitude Flow, Downstream Impacts, and Implications for Predictability. <i>Monthly Weather Review</i> , 2019, 147, 1077-1106.	1.4	55
15	The impact of Typhoon Jangmi (2008) on the midlatitude flow. Part I: Upper-level ridgebuilding and modification of the jet. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 2148-2164.	2.7	54
16	Exceptional Air Mass Transport and Dynamical Drivers of an Extreme Wintertime Arctic Warm Event. <i>Geophysical Research Letters</i> , 2017, 44, 12,028.	4.0	48
17	Modulation of Atmospheric River Occurrence and Associated Precipitation Extremes in the North Atlantic Region by European Weather Regimes. <i>Geophysical Research Letters</i> , 2019, 46, 1014-1023.	4.0	48
18	The role of North Atlantic-European weather regimes in the surface impact of sudden stratospheric warming events. <i>Weather and Climate Dynamics</i> , 2020, 1, 373-388.	3.5	44

#	ARTICLE	IF	CITATIONS
19	The impact of Typhoon Jangmi (2008) on the midlatitude flow. Part II: Downstream evolution. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 2165-2180.	2.7	41
20	Linking Low-Frequency Large-Scale Circulation Patterns to Cold Air Outbreak Formation in the Northeastern North Atlantic. Geophysical Research Letters, 2018, 45, 2542-2553.	4.0	40
21	Dynamics of a local Alpine flooding event in October 2011: moisture source and large-scale circulation. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1922-1937.	2.7	36
22	Stratospheric modulation of the large-scale circulation in the Atlantic-European region and its implications for surface weather events. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3732-3750.	2.7	32
23	European high-impact weather caused by the downstream response to the extratropical transition of North Atlantic Hurricane Katia (2011). Geophysical Research Letters, 2015, 42, 8738-8748.	4.0	30
24	Year-round sub-seasonal forecast skill for Atlantic-European weather regimes. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 4283-4309.	2.7	29
25	Does the lower stratosphere provide predictability for month-ahead wind electricity generation in Europe?. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3025-3036.	2.7	25
26	Dynamics of concurrent and sequential Central European and Scandinavian heatwaves. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2998-3013.	2.7	24
27	The role of large-scale dynamics in an exceptional sequence of severe thunderstorms in Europe May-June 2018. Weather and Climate Dynamics, 2020, 1, 325-348.	3.5	24
28	A Phase Locking Perspective on Rossby Wave Amplification and Atmospheric Blocking Downstream of Recurring Western North Pacific Tropical Cyclones. Monthly Weather Review, 2019, 147, 567-589.	1.4	23
29	Planning aircraft measurements within a warm conveyor belt. Weather, 2014, 69, 161-166.	0.7	22
30	Do Atlantic-European Weather Regimes Physically Exist?. Geophysical Research Letters, 2021, 48, e2021GL095574.	4.0	22
31	Stratospheric influence on ECMWF sub-seasonal forecast skill for energy-industry-relevant surface weather in European countries. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3675-3694.	2.7	19
32	Enhanced Tropospheric Wave Forcing of Two Anticyclones in the Prephase of the January 2009 Major Stratospheric Sudden Warming Event. Monthly Weather Review, 2017, 145, 1797-1815.	1.4	18
33	A quantitative assessment of the sensitivity of the downstream midlatitude flow response to extratropical transition of tropical cyclones. Geophysical Research Letters, 2015, 42, 9521-9529.	4.0	17
34	A weather system perspective on winter-spring rainfall variability in southeastern Australia during El Niño. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2614-2633.	2.7	17
35	Simulations of the effects of surface heat flux anomalies on stratification, convective growth, and vertical transport within the Saharan boundary layer. Journal of Geophysical Research, 2010, 115, .	3.3	15
36	Verification of North Atlantic warm conveyor belt outflows in ECMWF forecasts. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1333-1344.	2.7	15

#	ARTICLE	IF	CITATIONS
37	Three-dimensional visualization of ensemble weather forecasts â€œ Part 2: Forecasting warm conveyor belt situations for aircraft-based field campaigns. <i>Geoscientific Model Development</i> , 2015, 8, 2355-2377.	3.6	15
38	Rossby Wave Initiation by Recurring Tropical Cyclones in the Western North Pacific. <i>Monthly Weather Review</i> , 2018, 146, 1283-1301.	1.4	15
39	Sub-national variability of wind power generation in complex terrain and its correlation with large-scale meteorology. <i>Environmental Research Letters</i> , 2020, 15, 044025.	5.2	15
40	The Climatological Impact of Recurring North Atlantic Tropical Cyclones on Downstream Extreme Precipitation Events. <i>Monthly Weather Review</i> , 2019, 147, 1513-1532.	1.4	14
41	Tropospheric Role in the Predictability of the Surface Impact of the 2018 Sudden Stratospheric Warming Event. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
42	The Effects of Orography on the Extratropical Transition of Tropical Cyclones: A Case Study of Typhoon Sinlaku (2008). <i>Monthly Weather Review</i> , 2018, 146, 4231-4246.	1.4	5
43	The effect of stochastically perturbed parametrisation tendencies (SPPT) on rapidly ascending air streams. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 1242-1261.	2.7	5