List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A typology of compound weather and climate events. Nature Reviews Earth & Environment, 2020, 1, 333-347.	29.7	536
2	Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. Geoscientific Model Development, 2018, 11, 2455-2474.	3.6	221
3	Major Mechanisms of Atmospheric Moisture Transport and Their Role in Extreme Precipitation Events. Annual Review of Environment and Resources, 2016, 41, 117-141.	13.4	177
4	Responses and impacts of atmospheric rivers to climate change. Nature Reviews Earth & Environment, 2020, 1, 143-157.	29.7	171
5	Daily Precipitation Extreme Events in the Iberian Peninsula and Its Association with Atmospheric Rivers*. Journal of Hydrometeorology, 2015, 16, 579-597.	1.9	150
6	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
7	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
8	The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13777-13802.	3.3	126
9	The †Day Zero' Cape Town drought and the poleward migration of moisture corridors. Environmental Research Letters, 2018, 13, 124025.	5.2	103
10	The Impact of North Atlantic Wind and Cyclone Trends on European Precipitation and Significant Wave Height in the Atlantic. Annals of the New York Academy of Sciences, 2008, 1146, 212-234.	3.8	99
11	Recent changes in daily precipitation and surface air temperature extremes in mainland Portugal, in the period 1941–2007. Atmospheric Research, 2013, 127, 195-209.	4.1	83
12	Atmospheric blocking and weather extremes over the Euro-Atlantic sector – a review. Weather and Climate Dynamics, 2022, 3, 305-336.	3.5	79
13	The state of climate in NW Iberia. Climate Research, 2011, 48, 109-144.	1.1	77
14	Evolution of extreme temperatures over Portugal: recent changes and future scenarios. Climate Research, 2011, 48, 177-192.	1.1	72
15	Weather types and spatial variability of precipitation in the Iberian Peninsula. International Journal of Climatology, 2014, 34, 2661-2677.	3.5	72
16	Recent progress on the sources of continental precipitation as revealed by moisture transport analysis. Earth-Science Reviews, 2020, 201, 103070.	9.1	71
17	Responses of European precipitation distributions and regimes to different blocking locations. Climate Dynamics, 2017, 48, 1141-1160.	3.8	69
18	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. Earth's Future, 2021, 9, e2021FF002340	6.3	66

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19	Atmospheric rivers moisture sources from a Lagrangian perspective. Earth System Dynamics, 2016, 7, 371-384.	7.1	65
20	The Influence of Atmospheric Rivers over the South Atlantic on Winter Rainfall in South Africa. Journal of Hydrometeorology, 2018, 19, 127-142.	1.9	65
21	Influence of climate on grape production and wine quality in the RÃas Baixas, north-western Spain. Regional Environmental Change, 2013, 13, 887-896.	2.9	60
22	Projected changes in atmospheric rivers affecting Europe in CMIP5 models. Geophysical Research Letters, 2016, 43, 9315-9323.	4.0	58
23	Modelling monthly precipitation with circulation weather types for a dense network of stations over Iberia. Hydrology and Earth System Sciences, 2013, 17, 665-678.	4.9	56
24	The deadliest storm of the 20th century striking Portugal: Flood impacts and atmospheric circulation. Journal of Hydrology, 2016, 541, 597-610.	5.4	56
25	Saharan air intrusions as a relevant mechanism for Iberian heatwaves: The record breaking events of August 2018 and June 2019. Weather and Climate Extremes, 2019, 26, 100224.	4.1	56
26	Cloud to ground lightning activity over Portugal and its association with circulation weather types. Atmospheric Research, 2011, 101, 84-101.	4.1	54
27	The concurrence of atmospheric rivers and explosive cyclogenesis in the North Atlantic and North Pacific basins. Earth System Dynamics, 2018, 9, 91-102.	7.1	53
28	Evaluating the impact of extreme temperature based indices in the 2003 heatwave excessive mortality in Portugal. Environmental Science and Policy, 2009, 12, 844-854.	4.9	52
29	Trends and correlations in annual extreme precipitation indices for mainland Portugal, 1941–2007. Theoretical and Applied Climatology, 2015, 119, 55-75.	2.8	51
30	Comparing historic records of storm frequency and the North Atlantic Oscillation (NAO) chronology for the Azores region. Holocene, 2008, 18, 745-754.	1.7	48
31	Trends in seasonal surface air temperature in mainland Portugal, since 1941. International Journal of Climatology, 2014, 34, 1814-1837.	3.5	48
32	Modelling past and future wine production in the Portuguese Douro Valley. Climate Research, 2011, 48, 349-362.	1.1	47
33	Circulation weather types and spatial variability of daily precipitation in the Iberian Peninsula. Frontiers in Earth Science, 2014, 2, .	1.8	46
34	A ranking of highâ€resolution daily precipitation extreme events for the Iberian Peninsula. Atmospheric Science Letters, 2014, 15, 328-334.	1.9	44
35	Seasonal changes in daily precipitation extremes in mainland Portugal from 1941 to 2007. Regional Environmental Change, 2014, 14, 1765-1788.	2.9	43
36	Saharan dust intrusions in the Iberian Peninsula: Predominant synoptic conditions. Science of the Total Environment, 2020, 717, 137041.	8.0	40

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37	Significant increase of global anomalous moisture uptake feeding landfalling Atmospheric Rivers. Nature Communications, 2020, 11, 5082.	12.8	39
38	Changes in Present and Future Circulation Types Frequency in Northwest Iberian Peninsula. PLoS ONE, 2011, 6, e16201.	2.5	39
39	From Amazonia to southern Africa: atmospheric moisture transport through lowâ€level jets and atmospheric rivers. Annals of the New York Academy of Sciences, 2019, 1436, 217-230.	3.8	37
40	Increases in Future AR Count and Size: Overview of the ARTMIP Tier 2 CMIP5/6 Experiment. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	35
41	An Overview of ARTMIP's Tier 2 Reanalysis Intercomparison: Uncertainty in the Detection of Atmospheric Rivers and Their Associated Precipitation. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	34
42	The record precipitation and flood event in Iberia in December 1876: description and synoptic analysis. Frontiers in Earth Science, 2014, 2, .	1.8	33
43	Moisture Sources and Large-Scale Dynamics Associated With a Flash Flood Event. Geophysical Monograph Series, 0, , 111-126.	0.1	30
44	Compatibility between modes of lowâ€frequency variability and circulation types: A case study of the northwest Iberian Peninsula. Journal of Geophysical Research, 2010, 115, .	3.3	29
45	A ranking of concurrent precipitation and wind events for the Iberian Peninsula. International Journal of Climatology, 2021, 41, 1421-1437.	3.5	27
46	Ranking of multiâ€day extreme precipitation events over the Iberian Peninsula. International Journal of Climatology, 2017, 37, 607-620.	3.5	26
47	North Atlantic Integrated Water Vapor Transport—From 850 to 2100 CE: Impacts on Western European Rainfall. Journal of Climate, 2020, 33, 263-279.	3.2	26
48	Detection Uncertainty Matters for Understanding Atmospheric Rivers. Bulletin of the American Meteorological Society, 2020, 101, E790-E796.	3.3	24
49	Impact of Euro-Atlantic blocking patterns in Iberia precipitation using a novel high resolution dataset. Climate Dynamics, 2016, 46, 2573-2591.	3.8	23
50	Assessing the Use of Satellite-Based Estimates and High-Resolution Precipitation Datasets for the Study of Extreme Precipitation Events over the Iberian Peninsula. Water (Switzerland), 2018, 10, 1688.	2.7	23
51	The Exceptional Iberian Heatwave of Summer 2018. Bulletin of the American Meteorological Society, 2020, 101, S29-S34.	3.3	23
52	Circulation weather types as a tool in atmospheric, climate, and environmental research. Frontiers in Environmental Science, 2015, 3, .	3.3	22
53	Present and future climate conditions for winegrowing in Spain. Regional Environmental Change, 2016, 16, 617-627.	2.9	22
54	On the relationship between atmospheric water vapour transport and extra-tropical cyclones development. Physics and Chemistry of the Earth, 2016, 94, 56-65.	2.9	21

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55	Exceptionally extreme drought in Madeira Archipelago in 2012: Vegetation impacts and driving conditions. Agricultural and Forest Meteorology, 2017, 232, 195-209.	4.8	21
56	The use of circulation weather types to predict upwelling activity along the western Iberian Peninsula coast. Continental Shelf Research, 2013, 69, 38-51.	1.8	20
57	Spatial impact and triggering conditions of the exceptional hydro-geomorphological event of DecemberÂ1909 in Iberia. Natural Hazards and Earth System Sciences, 2016, 16, 371-390.	3.6	20
58	Effects of heat waves on human mortality, Galicia, Spain. Climate Research, 2011, 48, 333-341.	1.1	20
59	A centennial catalogue of hydro-geomorphological events and their atmospheric forcing. Advances in Water Resources, 2018, 122, 98-112.	3.8	19
60	Climate change in the Iberian Upwelling System: a numerical study using GCM downscaling. Climate Dynamics, 2016, 47, 451-464.	3.8	17
61	Assigning precipitation to midâ€latitudes fronts on subâ€daily scales in the North Atlantic and European sector: Climatology and trends. International Journal of Climatology, 2019, 39, 317-330.	3.5	17
62	European West Coast atmospheric rivers: A scale to characterize strength and impacts. Weather and Climate Extremes, 2021, 31, 100305.	4.1	17
63	Impact of extreme rainfall events on landslide activity in Portugal under climate change scenarios. Landslides, 2022, 19, 2279-2293.	5.4	17
64	Extreme Precipitation Events in Summer in the Iberian Peninsula and Its Relationship With Atmospheric Rivers. Frontiers in Earth Science, 2018, 6, .	1.8	16
65	Iberian extreme precipitation 1855/1856: an analysis from early instrumental observations and documentary sources. International Journal of Climatology, 2015, 35, 142-153.	3.5	15
66	Impacts of Atmospheric Rivers in Extreme Precipitation on the European Macaronesian Islands. Atmosphere, 2018, 9, 325.	2.3	15
67	Long-Term Spatial–Temporal Characterization of Cloud-to-Ground Lightning in the Metropolitan Region of Rio de Janeiro. Pure and Applied Geophysics, 2019, 176, 5161-5175.	1.9	15
68	Unusual Atmosphericâ€Riverâ€Like Structures Coming From Africa Induce Extreme Precipitation Over the Western Mediterranean Sea. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031280.	3.3	14
69	Earlier awareness of extreme winter precipitation across the western Iberian Peninsula. Meteorological Applications, 2018, 25, 622-628.	2.1	12
70	Atmospheric river, a term encompassing different meteorological patterns. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1558.	6.5	12
71	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. International Journal of Climatology, 2021, 41, 6602-6615.	3.5	11
72	Wet Spells and Associated Moisture Sources Anomalies across Danube River Basin. Water (Switzerland), 2017, 9, 615.	2.7	10

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73	Consecutive Extratropical Cyclones Daniel, Elsa and Fabien, and Their Impact on the Hydrological Cycle of Mainland Portugal. Water (Switzerland), 2021, 13, 1476.	2.7	10
74	Contribution of Moisture from Mediterranean Sea to Extreme Precipitation Events over Danube River Basin. Water (Switzerland), 2018, 10, 1182.	2.7	8
75	An Analysis of Fog in the Mainland Portuguese International Airports. Atmosphere, 2020, 11, 1239.	2.3	8
76	Rankings of extreme and widespread dry and wet events in the Iberian Peninsula between 1901 and 2016. Earth System Dynamics, 2021, 12, 197-210.	7.1	8
77	Atmospheric Rivers over the Arctic: Lagrangian Characterisation of Their Moisture Sources. Water (Switzerland), 2019, 11, 41.	2.7	7
78	Meteorological Driving Mechanisms and Human Impacts of the February 1979 Extreme Hydro-Geomorphological Event in Western Iberia. Water (Switzerland), 2018, 10, 454.	2.7	6
79	The Increasing Frequency of Tropical Cyclones in the Northeastern Atlantic Sector. Frontiers in Earth Science, 2021, 9, .	1.8	6
80	A new circulation type classification based upon Lagrangian air trajectories. Frontiers in Earth Science, 2014, 2, .	1.8	5
81	2018 International Atmospheric Rivers Conference: Multiâ€disciplinary studies and highâ€impact applications of atmospheric rivers. Atmospheric Science Letters, 2019, 20, e935.	1.9	5
82	Predictive skill for atmospheric rivers in the western Iberian Peninsula. Natural Hazards and Earth System Sciences, 2020, 20, 877-888.	3.6	5
83	Uncertainty in different precipitation products in the case of two atmospheric river events. Environmental Research Letters, 2021, 16, 045012.	5.2	5
84	Global climate models as forcing for regional ocean modeling: a sensitivity study in the Iberian Basin (Eastern North Atlantic). Climate Dynamics, 2014, 43, 1083-1102.	3.8	3
85	Training the Next Generation of Researchers in the Science and Application of Atmospheric Rivers. Bulletin of the American Meteorological Society, 2020, 101, E738-E743.	3.3	3
86	Global and Regional Perspectives. , 2020, , 89-140.		3
87	Effects of Atmospheric Rivers. , 2020, , 141-177.		2