

Alexandre M Ramos

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

4,305
citations

94269

37
h-index

118652

62
g-index

126
all docs

126
docs citations

126
times ranked

4362
citing authors

#	ARTICLE	IF	CITATIONS
1	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 333-347.	12.2	536
2	Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. <i>Geoscientific Model Development</i> , 2018, 11, 2455-2474.	1.3	221
3	Major Mechanisms of Atmospheric Moisture Transport and Their Role in Extreme Precipitation Events. <i>Annual Review of Environment and Resources</i> , 2016, 41, 117-141.	5.6	177
4	Responses and impacts of atmospheric rivers to climate change. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 143-157.	12.2	171
5	Daily Precipitation Extreme Events in the Iberian Peninsula and Its Association with Atmospheric Rivers*. <i>Journal of Hydrometeorology</i> , 2015, 16, 579-597.	0.7	150
6	State of the Climate in 2013. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, S1-S279.	1.7	138
7	State of the Climate in 2012. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S258.	1.7	129
8	The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13777-13802.	1.2	126
9	The “Day Zero” Cape Town drought and the poleward migration of moisture corridors. <i>Environmental Research Letters</i> , 2018, 13, 124025.	2.2	103
10	The Impact of North Atlantic Wind and Cyclone Trends on European Precipitation and Significant Wave Height in the Atlantic. <i>Annals of the New York Academy of Sciences</i> , 2008, 1146, 212-234.	1.8	99
11	Recent changes in daily precipitation and surface air temperature extremes in mainland Portugal, in the period 1941–2007. <i>Atmospheric Research</i> , 2013, 127, 195-209.	1.8	83
12	Atmospheric blocking and weather extremes over the Euro-Atlantic sector – a review. <i>Weather and Climate Dynamics</i> , 2022, 3, 305-336.	1.2	79
13	The state of climate in NW Iberia. <i>Climate Research</i> , 2011, 48, 109-144.	0.4	77
14	Evolution of extreme temperatures over Portugal: recent changes and future scenarios. <i>Climate Research</i> , 2011, 48, 177-192.	0.4	72
15	Weather types and spatial variability of precipitation in the Iberian Peninsula. <i>International Journal of Climatology</i> , 2014, 34, 2661-2677.	1.5	72
16	Recent progress on the sources of continental precipitation as revealed by moisture transport analysis. <i>Earth-Science Reviews</i> , 2020, 201, 103070.	4.0	71
17	Responses of European precipitation distributions and regimes to different blocking locations. <i>Climate Dynamics</i> , 2017, 48, 1141-1160.	1.7	69
18	Guidelines for Studying Diverse Types of Compound Weather and Climate Events. <i>Earth's Future</i> , 2021, 9, e2021EF002340.	2.4	66

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19	Atmospheric rivers moisture sources from a Lagrangian perspective. <i>Earth System Dynamics</i> , 2016, 7, 371-384.	2.7	65
20	The Influence of Atmospheric Rivers over the South Atlantic on Winter Rainfall in South Africa. <i>Journal of Hydrometeorology</i> , 2018, 19, 127-142.	0.7	65
21	Influence of climate on grape production and wine quality in the R�as Baixas, north-western Spain. <i>Regional Environmental Change</i> , 2013, 13, 887-896.	1.4	60
22	Projected changes in atmospheric rivers affecting Europe in CMIP5 models. <i>Geophysical Research Letters</i> , 2016, 43, 9315-9323.	1.5	58
23	Modelling monthly precipitation with circulation weather types for a dense network of stations over Iberia. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 665-678.	1.9	56
24	The deadliest storm of the 20th century striking Portugal: Flood impacts and atmospheric circulation. <i>Journal of Hydrology</i> , 2016, 541, 597-610.	2.3	56
25	Saharan air intrusions as a relevant mechanism for Iberian heatwaves: The record breaking events of August 2018 and June 2019. <i>Weather and Climate Extremes</i> , 2019, 26, 100224.	1.6	56
26	Cloud to ground lightning activity over Portugal and its association with circulation weather types. <i>Atmospheric Research</i> , 2011, 101, 84-101.	1.8	54
27	The concurrence of atmospheric rivers and explosive cyclogenesis in the North Atlantic and North Pacific basins. <i>Earth System Dynamics</i> , 2018, 9, 91-102.	2.7	53
28	Evaluating the impact of extreme temperature based indices in the 2003 heatwave excessive mortality in Portugal. <i>Environmental Science and Policy</i> , 2009, 12, 844-854.	2.4	52
29	Trends and correlations in annual extreme precipitation indices for mainland Portugal, 1941�2007. <i>Theoretical and Applied Climatology</i> , 2015, 119, 55-75.	1.3	51
30	Comparing historic records of storm frequency and the North Atlantic Oscillation (NAO) chronology for the Azores region. <i>Holocene</i> , 2008, 18, 745-754.	0.9	48
31	Trends in seasonal surface air temperature in mainland Portugal, since 1941. <i>International Journal of Climatology</i> , 2014, 34, 1814-1837.	1.5	48
32	Modelling past and future wine production in the Portuguese Douro Valley. <i>Climate Research</i> , 2011, 48, 349-362.	0.4	47
33	Circulation weather types and spatial variability of daily precipitation in the Iberian Peninsula. <i>Frontiers in Earth Science</i> , 2014, 2, .	0.8	46
34	A ranking of high-resolution daily precipitation extreme events for the Iberian Peninsula. <i>Atmospheric Science Letters</i> , 2014, 15, 328-334.	0.8	44
35	Seasonal changes in daily precipitation extremes in mainland Portugal from 1941 to 2007. <i>Regional Environmental Change</i> , 2014, 14, 1765-1788.	1.4	43
36	Saharan dust intrusions in the Iberian Peninsula: Predominant synoptic conditions. <i>Science of the Total Environment</i> , 2020, 717, 137041.	3.9	40

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37	Significant increase of global anomalous moisture uptake feeding landfalling Atmospheric Rivers. <i>Nature Communications</i> , 2020, 11, 5082.	5.8	39
38	Changes in Present and Future Circulation Types Frequency in Northwest Iberian Peninsula. <i>PLoS ONE</i> , 2011, 6, e16201.	1.1	39
39	From Amazonia to southern Africa: atmospheric moisture transport through low-level jets and atmospheric rivers. <i>Annals of the New York Academy of Sciences</i> , 2019, 1436, 217-230.	1.8	37
40	Increases in Future AR Count and Size: Overview of the ARTMIP Tier 2 CMIP5/6 Experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	35
41	An Overview of ARTMIP's Tier 2 Reanalysis Intercomparison: Uncertainty in the Detection of Atmospheric Rivers and Their Associated Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	34
42	The record precipitation and flood event in Iberia in December 1876: description and synoptic analysis. <i>Frontiers in Earth Science</i> , 2014, 2, .	0.8	33
43	Moisture Sources and Large-Scale Dynamics Associated With a Flash Flood Event. <i>Geophysical Monograph Series</i> , 0, , 111-126.	0.1	30
44	Compatibility between modes of low-frequency variability and circulation types: A case study of the northwest Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
45	A ranking of concurrent precipitation and wind events for the Iberian Peninsula. <i>International Journal of Climatology</i> , 2021, 41, 1421-1437.	1.5	27
46	Ranking of multi-day extreme precipitation events over the Iberian Peninsula. <i>International Journal of Climatology</i> , 2017, 37, 607-620.	1.5	26
47	North Atlantic Integrated Water Vapor Transport—From 850 to 2100 CE: Impacts on Western European Rainfall. <i>Journal of Climate</i> , 2020, 33, 263-279.	1.2	26
48	Detection Uncertainty Matters for Understanding Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E790-E796.	1.7	24
49	Impact of Euro-Atlantic blocking patterns in Iberia precipitation using a novel high resolution dataset. <i>Climate Dynamics</i> , 2016, 46, 2573-2591.	1.7	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. <i>Water (Switzerland)</i> , 2018, 10, 1688.	1.2	23
51	The Exceptional Iberian Heatwave of Summer 2018. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S29-S34.	1.7	23
52	Circulation weather types as a tool in atmospheric, climate, and environmental research. <i>Frontiers in Environmental Science</i> , 2015, 3, .	1.5	22
53	Present and future climate conditions for winegrowing in Spain. <i>Regional Environmental Change</i> , 2016, 16, 617-627.	1.4	22
54	On the relationship between atmospheric water vapour transport and extra-tropical cyclones development. <i>Physics and Chemistry of the Earth</i> , 2016, 94, 56-65.	1.2	21

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55	Exceptionally extreme drought in Madeira Archipelago in 2012: Vegetation impacts and driving conditions. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 195-209.	1.9	21
56	The use of circulation weather types to predict upwelling activity along the western Iberian Peninsula coast. <i>Continental Shelf Research</i> , 2013, 69, 38-51.	0.9	20
57	Spatial impact and triggering conditions of the exceptional hydro-geomorphological event of December 1909 in Iberia. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 371-390.	1.5	20
58	Effects of heat waves on human mortality, Galicia, Spain. <i>Climate Research</i> , 2011, 48, 333-341.	0.4	20
59	A centennial catalogue of hydro-geomorphological events and their atmospheric forcing. <i>Advances in Water Resources</i> , 2018, 122, 98-112.	1.7	19
60	Climate change in the Iberian Upwelling System: a numerical study using GCM downscaling. <i>Climate Dynamics</i> , 2016, 47, 451-464.	1.7	17
61	Assigning precipitation to mid-latitudes fronts on sub-daily scales in the North Atlantic and European sector: Climatology and trends. <i>International Journal of Climatology</i> , 2019, 39, 317-330.	1.5	17
62	European West Coast atmospheric rivers: A scale to characterize strength and impacts. <i>Weather and Climate Extremes</i> , 2021, 31, 100305.	1.6	17
63	Impact of extreme rainfall events on landslide activity in Portugal under climate change scenarios. <i>Landslides</i> , 2022, 19, 2279-2293.	2.7	17
64	Extreme Precipitation Events in Summer in the Iberian Peninsula and Its Relationship With Atmospheric Rivers. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	16
65	Iberian extreme precipitation 1855/1856: an analysis from early instrumental observations and documentary sources. <i>International Journal of Climatology</i> , 2015, 35, 142-153.	1.5	15
66	Impacts of Atmospheric Rivers in Extreme Precipitation on the European Macaronesian Islands. <i>Atmosphere</i> , 2018, 9, 325.	1.0	15
67	Long-Term Spatial–Temporal Characterization of Cloud-to-Ground Lightning in the Metropolitan Region of Rio de Janeiro. <i>Pure and Applied Geophysics</i> , 2019, 176, 5161-5175.	0.8	15
68	Unusual Atmospheric River-Like Structures Coming From Africa Induce Extreme Precipitation Over the Western Mediterranean Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031280.	1.2	14
69	Earlier awareness of extreme winter precipitation across the western Iberian Peninsula. <i>Meteorological Applications</i> , 2018, 25, 622-628.	0.9	12
70	Atmospheric river, a term encompassing different meteorological patterns. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1558.	2.8	12
71	Ranking and characterization of precipitation extremes for the past 113 years for Indian western Himalayas. <i>International Journal of Climatology</i> , 2021, 41, 6602-6615.	1.5	11
72	Wet Spells and Associated Moisture Sources Anomalies across Danube River Basin. <i>Water (Switzerland)</i> , 2017, 9, 615.	1.2	10

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73	Consecutive Extratropical Cyclones Daniel, Elsa and Fabien, and Their Impact on the Hydrological Cycle of Mainland Portugal. <i>Water (Switzerland)</i> , 2021, 13, 1476.	1.2	10
74	Contribution of Moisture from Mediterranean Sea to Extreme Precipitation Events over Danube River Basin. <i>Water (Switzerland)</i> , 2018, 10, 1182.	1.2	8
75	An Analysis of Fog in the Mainland Portuguese International Airports. <i>Atmosphere</i> , 2020, 11, 1239.	1.0	8
76	Rankings of extreme and widespread dry and wet events in the Iberian Peninsula between 1901 and 2016. <i>Earth System Dynamics</i> , 2021, 12, 197-210.	2.7	8
77	Atmospheric Rivers over the Arctic: Lagrangian Characterisation of Their Moisture Sources. <i>Water (Switzerland)</i> , 2019, 11, 41.	1.2	7
78	Meteorological Driving Mechanisms and Human Impacts of the February 1979 Extreme Hydro-Geomorphological Event in Western Iberia. <i>Water (Switzerland)</i> , 2018, 10, 454.	1.2	6
79	The Increasing Frequency of Tropical Cyclones in the Northeastern Atlantic Sector. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	6
80	A new circulation type classification based upon Lagrangian air trajectories. <i>Frontiers in Earth Science</i> , 2014, 2, .	0.8	5
81	2018 International Atmospheric Rivers Conference: Multi-disciplinary studies and high-impact applications of atmospheric rivers. <i>Atmospheric Science Letters</i> , 2019, 20, e935.	0.8	5
82	Predictive skill for atmospheric rivers in the western Iberian Peninsula. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 877-888.	1.5	5
83	Uncertainty in different precipitation products in the case of two atmospheric river events. <i>Environmental Research Letters</i> , 2021, 16, 045012.	2.2	5
84	Global climate models as forcing for regional ocean modeling: a sensitivity study in the Iberian Basin (Eastern North Atlantic). <i>Climate Dynamics</i> , 2014, 43, 1083-1102.	1.7	3
85	Training the Next Generation of Researchers in the Science and Application of Atmospheric Rivers. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E738-E743.	1.7	3
86	Global and Regional Perspectives. , 2020, , 89-140.		3
87	Effects of Atmospheric Rivers. , 2020, , 141-177.		2