

Pedro M M Soares

List of Publications by Year in descending order

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107
papers

5,393
citations

101496

36
h-index

95218

68
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141
all docs

141
docs citations

141
times ranked

5370
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatology of the Iberia coastal low-level wind jet: weather research forecasting model high-resolution results. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 22377.	0.8	54
2	The impact of climate change on the Iberian low-level wind jet: EURO-CORDEX regional climate simulation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 29005.	0.8	31
3	Is there added value in the <scp>EUROâ€CORDEX</scp> hindcast temperature simulations? Assessing the added value using climate distributions in Europe. <i>International Journal of Climatology</i> , 2022, 42, 4024-4039.	1.5	16
4	Global coastal <scp>lowâ€level</scp> wind jets revisited through the new <scp>ERA5</scp> reanalysis. <i>International Journal of Climatology</i> , 2022, 42, 4491-4507.	1.5	4
5	Modeling reservoir surface temperatures for regional and global climate models: a multi-model study on the inflow and level variation effects. <i>Geoscientific Model Development</i> , 2022, 15, 173-197.	1.3	4
6	Afforestation impact on soil temperature in regional climate model simulations over Europe. <i>Geoscientific Model Development</i> , 2022, 15, 595-616.	1.3	5
7	Added value of EURO-CORDEX high-resolution downscaling over the Iberian Peninsula revisited â€“ Part 1: Precipitation. <i>Geoscientific Model Development</i> , 2022, 15, 2635-2652.	1.3	14
8	Added value of EURO-CORDEX high-resolution downscaling over the Iberian Peninsula revisited â€“ Part 2: Max and min temperature. <i>Geoscientific Model Development</i> , 2022, 15, 2653-2671.	1.3	13
9	Landâ€atmosphere interactions in sub-polar and alpine climates in the CORDEX Flagship Pilot Study Land Use and Climate Across Scales (LUCAS) models â€“ Part 2: The role of changing vegetation. <i>Cryosphere</i> , 2022, 16, 1383-1397.	1.5	5
10	Evaluation of the performance of a dynamic wave climate ensemble simulated using with <scp>EUROâ€CORDEX</scp> winds in the Black Sea and Sea of Azov. <i>International Journal of Climatology</i> , 2022, 42, 8345-8367.	1.5	2
11	Impact of extreme rainfall events on landslide activity in Portugal under climate change scenarios. <i>Landslides</i> , 2022, 19, 2279-2293.	2.7	17
12	Landâ€atmosphere interactions in sub-polar and alpine climates in the CORDEX flagship pilot study Land Use and Climate Across Scales (LUCAS) modelsâ€“ Part 1: Evaluation of the snow-albedo effect. <i>Cryosphere</i> , 2022, 16, 2403-2419.	1.5	3
13	Internal variability versus multiâ€physics uncertainty in a regional climate model. <i>International Journal of Climatology</i> , 2021, 41, E656.	1.5	13
14	On the uncertainty of future projections of Marine Heatwave events in the North Atlantic Ocean. <i>Climate Dynamics</i> , 2021, 56, 2027-2056.	1.7	13
15	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution part 2: historical and future simulations of precipitation. <i>Climate Dynamics</i> , 2021, 56, 3581-3602.	1.7	101
16	Uncertainty in different precipitation products in the case of two atmospheric river events. <i>Environmental Research Letters</i> , 2021, 16, 045012.	2.2	5
17	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. <i>Climate Dynamics</i> , 2021, 57, 275-302.	1.7	114
18	A high-resolution view of the recent drought trends over the Iberian Peninsula. <i>Weather and Climate Extremes</i> , 2021, 32, 100320.	1.6	9

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19	The impact of climate change in wheat and barley yields in the Iberian Peninsula. <i>Scientific Reports</i> , 2021, 11, 15484.	1.6	28
20	The present and future offshore wind resource in the Southwestern African region. <i>Climate Dynamics</i> , 2021, 56, 1371-1388.	1.7	13
21	Future precipitation in a Mediterranean island and streamflow changes for a small basin using EURO-CORDEX regional climate simulations and the SWAT model. <i>Journal of Hydrology</i> , 2021, 603, 127025.	2.3	15
22	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. <i>Climate Dynamics</i> , 2020, 55, 3-34.	1.7	176
23	Comparison of methodologies for generation of future weather data for building thermal energy simulation. <i>Energy and Buildings</i> , 2020, 206, 109556.	3.1	34
24	The shape of days to come: Effects of climate change on low energy buildings. <i>Building and Environment</i> , 2020, 181, 107125.	3.0	17
25	An integrated approach to project the future urban climate response: Changes to Lisbon's urban heat island and temperature extremes. <i>Urban Climate</i> , 2020, 34, 100683.	2.4	18
26	Distinct influences of large-scale circulation and regional feedbacks in two exceptional 2019 European heatwaves. <i>Communications Earth & Environment</i> , 2020, 1, .	2.6	46
27	Evaluation of the EURO-CORDEX Regional Climate Models Over the Iberian Peninsula: Observational Uncertainty Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032880.	1.2	15
28	On the impact of atmospheric vs oceanic resolutions on the representation of the sea surface temperature in the South Eastern Tropical Atlantic. <i>Climate Dynamics</i> , 2020, 54, 4733-4757.	1.7	10
29	Biogeophysical impacts of forestation in Europe: first results from the LUCAS (Land Use and Climate) Tj ETQq1 1 0.784314 rgBT /Over to	2.7	82
30	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	227
31	Mind the climate policy gaps: climate change public policy and reality in Portugal, Spain and Morocco. <i>Climatic Change</i> , 2020, 161, 151-169.	1.7	11
32	Global offshore wind energy resources using the new ERA-5 reanalysis. <i>Environmental Research Letters</i> , 2020, 15, 1040a2.	2.2	36
33	Global marine heatwave events using the new CMIP6 multi-model ensemble: from shortcomings in present climate to future projections. <i>Environmental Research Letters</i> , 2020, 15, 124058.	2.2	46
34	The Opposing Effects of Reforestation and Afforestation on the Diurnal Temperature Cycle at the Surface and in the Lowest Atmospheric Model Level in the European Summer. <i>Journal of Climate</i> , 2020, 33, 9159-9179.	1.2	25
35	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor cross-validation experiment. <i>International Journal of Climatology</i> , 2019, 39, 3750-3785.	1.5	164
36	Assessing the climate change impact on the North African offshore surface wind and coastal low-level jet using coupled and uncoupled regional climate simulations. <i>Climate Dynamics</i> , 2019, 52, 7111-7132.	1.7	14

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37	A surface modelling approach for attribution and disentanglement of the effects of global warming from urbanization in temperature extremes: application to Lisbon. <i>Environmental Research Letters</i> , 2019, 14, 114023.	2.2	9
38	Persistence of the high solar potential in Africa in a changing climate. <i>Environmental Research Letters</i> , 2019, 14, 124036.	2.2	25
39	Mapping the suitability of groundwater-dependent vegetation in a semi-arid Mediterranean area. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3525-3552.	1.9	12
40	Mean and extreme temperatures in a warming climate: EURO CORDEX and WRF regional climate high-resolution projections for Portugal. <i>Climate Dynamics</i> , 2019, 52, 129-157.	1.7	84
41	Validation of spatial variability in downscaling results from the VALUE perfect predictor experiment. <i>International Journal of Climatology</i> , 2019, 39, 3819-3845.	1.5	27
42	Impact of climate change on building cooling potential of direct ventilation and evaporative cooling: A high resolution view for the Iberian Peninsula. <i>Energy and Buildings</i> , 2019, 192, 31-44.	3.1	16
43	How Will a Warming Climate Affect the Benguela Coastal Low-Level Wind Jet?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5010-5028.	1.2	9
44	Climate change impact on Northwestern African offshore wind energy resources. <i>Environmental Research Letters</i> , 2019, 14, 124065.	2.2	23
45	Land-Atmosphere Coupling Regimes in a Future Climate in Africa: From Model Evaluation to Projections Based on CORDEX-Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11118-11142.	1.2	18
46	The North African coastal low level wind jet: a high resolution view. <i>Climate Dynamics</i> , 2019, 53, 1211-1230.	1.7	9
47	The synergy between drought and extremely hot summers in the Mediterranean. <i>Environmental Research Letters</i> , 2019, 14, 014011.	2.2	60
48	A Climatological Analysis of the Benguela Coastal Low-Level Jet. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3960-3978.	1.2	14
49	Process-based evaluation of the VALUE perfect predictor experiment of statistical downscaling methods. <i>International Journal of Climatology</i> , 2019, 39, 3868-3893.	1.5	32
50	Uncertainty in gridded precipitation products: Influence of station density, interpolation method and grid resolution. <i>International Journal of Climatology</i> , 2019, 39, 3717-3729.	1.5	71
51	The VALUE perfect predictor experiment: Evaluation of temporal variability. <i>International Journal of Climatology</i> , 2019, 39, 3786-3818.	1.5	47
52	Observational uncertainty and regional climate model evaluation: A pan-European perspective. <i>International Journal of Climatology</i> , 2019, 39, 3730-3749.	1.5	98
53	Comparison of statistical downscaling methods with respect to extreme events over Europe: Validation results from the perfect predictor experiment of the COST Action VALUE. <i>International Journal of Climatology</i> , 2019, 39, 3846-3867.	1.5	64
54	High-resolution multi-model projections of onshore wind resources over Portugal under a changing climate. <i>Theoretical and Applied Climatology</i> , 2019, 136, 347-362.	1.3	28

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55	Challenges to link climate change data provision and user needs: Perspective from the COST action VALUE. <i>International Journal of Climatology</i> , 2019, 39, 3704-3716.	1.5	23
56	Iberia01: a new gridded dataset of daily precipitation and temperatures over Iberia. <i>Earth System Science Data</i> , 2019, 11, 1947-1956.	3.7	51
57	Scientific Challenges of Convective-Scale Numerical Weather Prediction. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 699-710.	1.7	82
58	The unprecedented 2014 Legionnairesâ€™ disease outbreak in Portugal: atmospheric driving mechanisms. <i>International Journal of Biometeorology</i> , 2018, 62, 1167-1179.	1.3	20
59	European temperature responses to blocking and ridge regional patterns. <i>Climate Dynamics</i> , 2018, 50, 457-477.	1.7	131
60	Spatial and temporal variability of the Iberian Peninsula coastal low-level jet. <i>International Journal of Climatology</i> , 2018, 38, 1605-1622.	1.5	19
61	A simple method to assess the added value using high-resolution climate distributions: application to the EURO-CORDEX daily precipitation. <i>International Journal of Climatology</i> , 2018, 38, 1484-1498.	1.5	47
62	A Global View of Coastal Low-Level Wind Jets Using an Ensemble of Reanalyses. <i>Journal of Climate</i> , 2018, 31, 1525-1546.	1.2	25
63	Dynamical and statistical downscaling of a global seasonal hindcast in eastern Africa. <i>Climate Services</i> , 2018, 9, 72-85.	1.0	36
64	Land-Atmosphere Coupling in CORDEX-Africa: Hindcast Regional Climate Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,048.	1.2	15
65	Using high-resolution simulated climate projections in forest process-based modelling. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 100-106.	1.9	13
66	Waves along Eastern boundary currents â€“ The regional winds effect. <i>Ocean Modelling</i> , 2018, 129, 39-57.	1.0	6
67	Responses of European precipitation distributions and regimes to different blocking locations. <i>Climate Dynamics</i> , 2017, 48, 1141-1160.	1.7	69
68	Evaluating fire growth simulations using satellite active fire data. <i>Remote Sensing of Environment</i> , 2017, 190, 302-317.	4.6	34
69	Western Iberian offshore wind resources: More or less in a global warming climate?. <i>Applied Energy</i> , 2017, 203, 72-90.	5.1	59
70	Land-Atmosphere coupling in EURO-CORDEX evaluation experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 79-103.	1.2	84
71	Towards process-informed bias correction of climate change simulations. <i>Nature Climate Change</i> , 2017, 7, 764-773.	8.1	329
72	High resolution projections for the western Iberian coastal low level jet in a changing climate. <i>Climate Dynamics</i> , 2017, 49, 1547-1566.	1.7	27

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73	An Iberian climatology of solar radiation obtained from WRF regional climate simulations for 1950–2010 period. <i>Atmospheric Research</i> , 2017, 198, 151-162.	1.8	11
74	Future precipitation in Portugal: high-resolution projections using WRF model and EURO-CORDEX multi-model ensembles. <i>Climate Dynamics</i> , 2017, 49, 2503-2530.	1.7	78
75	Effects of Recent Minimum Temperature and Water Deficit Increases on <i>Pinus pinaster</i> Radial Growth and Wood Density in Southern Portugal. <i>Frontiers in Plant Science</i> , 2016, 7, 1170.	1.7	35
76	The summer diurnal cycle of coastal cloudiness over west Iberia using Meteosat/SEVIRI and a WRF regional climate model simulation. <i>International Journal of Climatology</i> , 2016, 36, 1755-1772.	1.5	13
77	Probabilistic fire spread forecast as a management tool in an operational setting. SpringerPlus, 2016, 5, 1205.	1.2	26
78	The impact of climate change on the global coastal low-level wind jets: EC-EARTH simulations. <i>Global and Planetary Change</i> , 2016, 137, 88-106.	1.6	23
79	Climatic cooling potential and building cooling demand savings: High resolution spatiotemporal analysis of direct ventilation and evaporative cooling for the Iberian Peninsula. <i>Renewable Energy</i> , 2016, 85, 766-776.	4.3	30
80	On the year-to-year changes of the Iberian Poleward Current. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 4980-4999.	1.0	22
81	Thermal stratification of Portuguese reservoirs: potential impact of extreme climate scenarios. <i>Journal of Water and Climate Change</i> , 2015, 6, 544-560.	1.2	4
82	Climate change and the Portuguese precipitation: ENSEMBLES regional climate models results. <i>Climate Dynamics</i> , 2015, 45, 1771-1787.	1.7	42
83	The Convective Parameterization Problem: Breadth and Depth. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES127-ES130.	1.7	6
84	Basic Concepts for Convection Parameterization in Weather Forecast and Climate Models: COST Action ES0905 Final Report. <i>Atmosphere</i> , 2015, 6, 88-147.	1.0	17
85	Regional climate hindcast simulations within EURO-CORDEX: evaluation of a WRF multi-physics ensemble. <i>Geoscientific Model Development</i> , 2015, 8, 603-618.	1.3	175
86	Inter-annual variability and long term predictability of exchanges through the Strait of Gibraltar. <i>Global and Planetary Change</i> , 2014, 114, 23-37.	1.6	18
87	Moisture recycling in the Iberian Peninsula from a regional climate simulation: Spatiotemporal analysis and impact on the precipitation regime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5895-5912.	1.2	42
88	Assessing energy savings in cooling demand of buildings using passive cooling systems based on ventilation. <i>Applied Energy</i> , 2014, 134, 426-438.	5.1	41
89	Assessment of diffuse radiation models for cloudy atmospheric conditions in the Azores region. <i>Solar Energy</i> , 2014, 108, 538-547.	2.9	27
90	Integrated Analysis of Climate, Soil, Topography and Vegetative Growth in Iberian Viticultural Regions. <i>PLoS ONE</i> , 2014, 9, e108078.	1.1	65

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91	The Gulf of Cadiz-Alboran Sea sub-basin: Model setup, exchange and seasonal variability. Ocean Modelling, 2013, 61, 49-67.	1.0	35
92	<scp>WRF</scp> high resolution simulation of Iberian mean and extreme precipitation climate. International Journal of Climatology, 2013, 33, 2591-2608.	1.5	126
93	WRF high resolution dynamical downscaling of ERA-Interim for Portugal. Climate Dynamics, 2012, 39, 2497-2522.	1.7	207
94	Assessment of the ENSEMBLES regional climate models in the representation of precipitation variability and extremes over Portugal. Journal of Geophysical Research, 2012, 117, .	3.3	54
95	Tropical and Subtropical Cloud Transitions in Weather and Climate Prediction Models: The GCSS/WGNE Pacific Cross-Section Intercomparison (GPCI). Journal of Climate, 2011, 24, 5223-5256.	1.2	134
96	On the new parameterisation of the eddy diffusivity for radioactive pollutant dispersion. International Journal of Nuclear Energy Science and Technology, 2011, 6, 166.	0.2	1
97	Theoretical study of the decaying convective turbulence in a shear-buoyancy PBL. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3320-3328.	1.2	0
98	On the Time Evolution of the Turbulent Kinetic Energy Spectrum for Decaying Turbulence in the Convective Boundary Layer. Boundary-Layer Meteorology, 2011, 138, 61-75.	1.2	17
99	Tritium dispersion simulation in the atmosphere by the integral transform technique using micrometeorological parameters generated by large eddy simulation. International Journal of Nuclear Energy Science and Technology, 2010, 5, 11.	0.2	1
100	Infrared sounding of the trade-wind boundary layer: AIRS and the RICO experiment. Geophysical Research Letters, 2010, 37, .	1.5	20
101	An analytical approach to simulate radioactive pollutant dispersion from nuclear power plant in atmosphere. , 2009, , .		0
102	On the focal mechanism of the 26.05.1975 North Atlantic event contribution from tsunami modeling. Journal of Seismology, 2008, 12, 575-583.	0.6	17
103	Parameterization of the Atmospheric Boundary Layer: A View from Just Above the Inversion. Bulletin of the American Meteorological Society, 2008, 89, 453-458.	1.7	70
104	A Combined Eddy-Diffusivity Mass-Flux Approach for the Convective Boundary Layer. Journals of the Atmospheric Sciences, 2007, 64, 1230-1248.	0.6	295
105	The diurnal cycle of shallow cumulus clouds over land: A single-column model intercomparison study. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3339-3364.	1.0	86
106	Sensitivity of moist convection to environmental humidity. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3055-3079.	1.0	383
107	An eddy-diffusivity/mass-flux parametrization for dry and shallow cumulus convection. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 3365-3383.	1.0	154