Alfredo M Rocha

List of Publications by Year
in descending order

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82 papers	2,777 citations	185998 28 h-index	189595 50 g-index
82 all docs	82 docs citations	82 times ranked	3128 citing authors

#	Article	IF	Citations
1	A sensitivity study of the WRF model in wind simulation for an area of high wind energy. Environmental Modelling and Software, 2012, 33, 23-34.	1.9	240
2	WRF wind simulation and wind energy production estimates forced by different reanalyses: Comparison with observed data for Portugal. Applied Energy, 2014, 117, 116-126.	5.1	193
3	Potential impacts of climate change on European wind energy resource under the CMIP5 future climate projections. Renewable Energy, 2017, 101, 29-40.	4.3	158
4	Sensitivity of the WRF model wind simulation and wind energy production estimates to planetary boundary layer parameterizations for onshore and offshore areas in the Iberian Peninsula. Applied Energy, 2014, 135, 234-246.	5.1	115
5	INTERANNUAL VARIABILITY OF SOUTH-EASTERN AFRICAN SUMMER RAINFALL. PART 1: RELATIONSHIPS WITH AIRâ€“SEA INTERACTION PROCESSES. International Journal of Climatology, 1997, 17, 235-265.	1.5	98
6	Offshore wind energy resource simulation forced by different reanalyses: Comparison with observed data in the Iberian Peninsula. Applied Energy, 2014, 134, 57-64.	5.1	98
7	Wind resource modelling in complex terrain using different mesoscaleâ€“microscale coupling techniques. Applied Energy, 2013, 108, 493-504.	5.1	96
8	Regionalization of Europe based on a K-Means Cluster Analysis of the climate change of temperatures and precipitation. Physics and Chemistry of the Earth, 2016, 94, 22-28.	1.2	90
9	Singular spectrum analysis and forecasting of hydrological time series. Physics and Chemistry of the Earth, 2006, 31, 1172-1179.	1.2	85
10	Comparison of reanalyzed, analyzed, satellite-retrieved and NWP modelled winds with buoy data along the Iberian Peninsula coast. Remote Sensing of Environment, 2014, 152, 480-492.	4.6	81
11	Offshore winds and wind energy production estimates derived from ASCAT, OSCAT, numerical weather prediction models and buoys â€“ A comparative study for the Iberian Peninsula Atlantic coast. Renewable Energy, 2017, 102, 433-444.	4.3	63
12	Ocean surface wind simulation forced by different reanalyses: Comparison with observed data along the Iberian Peninsula coast. Ocean Modelling, 2012, 56, 31-42.	1.0	62
13	Urban resilience to future urban heat waves under a climate change scenario: A case study for Porto urban area (Portugal). Urban Climate, 2017, 19, 1-27.	2.4	61
14	Climate Change Projections of Extreme Temperatures for the Iberian Peninsula. Atmosphere, 2019, 10, 229.	1.0	59
15	High resolution WRF climatic simulations for the Iberian Peninsula: Model validation. Physics and Chemistry of the Earth, 2016, 94, 94-105.	1.2	57
16	Extreme precipitation events under climate change in the Iberian Peninsula. International Journal of Climatology, 2020, 40, 1255-1278.	1.5	52
17	Recent trends of extreme temperature indices for the Iberian Peninsula. Physics and Chemistry of the Earth, 2016, 94, 66-76.	1.2	50
18	Heat wave and cold spell changes in Iberia for a future climate scenario. International Journal of Climatology, 2017, 37, 5192-5205.	1.5	48

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19	Fire weather risk assessment under climate change using a dynamical downscaling approach. Environmental Modelling and Software, 2011, 26, 1123-1133.	1.9	44
20	Local sea level change scenarios for the end of the 21st century and potential physical impacts in the lower Ria de Aveiro (Portugal). Continental Shelf Research, 2011, 31, 1515-1526.	0.9	42
21	INTERANNUAL VARIABILITY OF SOUTH-EASTERN AFRICAN SUMMER RAINFALL. PART II. MODELLING THE IMPACT OF SEA-SURFACE TEMPERATURES ON RAINFALL AND CIRCULATION. International Journal of Climatology, 1997, 17, 267-290.	1.5	41
22	Comparison between CCMP, QuikSCAT and buoy winds along the Iberian Peninsula coast. Remote Sensing of Environment, 2013, 137, 173-183.	4.6	40
23	Using bias-correction to improve future projections of offshore wind energy resource: A case study on the Iberian Peninsula. Applied Energy, 2020, 262, 114562.	5.1	38
24	Low-frequency variability of seasonal rainfall over the Iberian peninsula and ENSO. International Journal of Climatology, 1999, 19, 889-901.	1.5	37
25	Climate change and pollutant emissions impacts on air quality in 2050 over Portugal. Atmospheric Environment, 2016, 131, 209-224.	1.9	37
26	Effects of extreme temperatures on cerebrovascular mortality in Lisbon: a distributed lag non-linear model. International Journal of Biometeorology, 2019, 63, 549-559.	1.3	37
27	Modelling the extreme precipitation event over Madeira Island on 20 February 2010. Natural Hazards and Earth System Sciences, 2011, 11, 2437-2452.	1.5	33
28	WRF-chem sensitivity to vertical resolution during a saharan dust event. Physics and Chemistry of the Earth, 2016, 94, 188-195.	1.2	31
29	Quantification and mapping of urban fluxes under climate change: Application of WRF-SUEWS model to Greater Porto area (Portugal). Environmental Research, 2017, 155, 321-334.	3.7	31
30	Comparative energetics of ERA-40, JRA-25 and NCEP-R2 reanalysis, in the wave number domain. Dynamics of Atmospheres and Oceans, 2010, 50, 375-399.	0.7	29
31	The Association of Australian Winter Climate with Ocean Temperatures to the West. Journal of Climate, 1991, 4, 1147-1161.	1.2	28
32	Recent trends of extreme precipitation indices in the Iberian Peninsula using observations and WRF model results. Physics and Chemistry of the Earth, 2016, 94, 10-21.	1.2	28
33	Sensitivity of the WRF model to the lower boundary in an extreme precipitation event â€“ Madeira island case study. Natural Hazards and Earth System Sciences, 2014, 14, 2009-2025.	1.5	26
34	Global atmospheric energetics from NCEPâ€“Reanalysis 2 and ECMWFâ€“ERA40 Reanalysis. International Journal of Climatology, 2009, 29, 159-174.	1.5	25
35	Temperature and Precipitation Extremes over the Iberian Peninsula under Climate Change Scenarios: A Review. Climate, 2021, 9, 139.	1.2	25
36	Urban Cold and Heat Island in the City of BraganÃ§a (Portugal). Climate, 2018, 6, 70.	1.2	24

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37	Mapping green water scarcity under climate change: A case study of Portugal. Science of the Total Environment, 2019, 696, 134024.	3.9	23
38	Climate change impact on a wineâ€producing region using a dynamical downscaling approach: Climate parameters, bioclimatic indices and extreme indices. International Journal of Climatology, 2019, 39, 5741-5760.	1.5	22
39	Future climate change of stability indices for the Iberian Peninsula. International Journal of Climatology, 2017, 37, 4390-4408.	1.5	21
40	Towards Operational Modeling and Forecasting of the Iberian Shelves Ecosystem. PLoS ONE, 2012, 7, e37343.	1.1	20
41	Surface to boundary layer coupling in the urban area of Lisbon comparing different urban canopy models in WRF. Urban Climate, 2019, 28, 100454.	2.4	20
42	Modelling the temperature and the phytoplankton distributions at the Aveiro near coastal zone, Portugal. Ecological Modelling, 2009, 220, 940-961.	1.2	19
43	Assessment of Hybrid Wind-Wave Energy Resource for the NW Coast of Iberian Peninsula in a Climate Change Context. Applied Sciences (Switzerland), 2020, 10, 7395.	1.3	19
44	An interactive Web-GIS fluvial flood forecast and alert system in operation in Portugal. International Journal of Disaster Risk Reduction, 2021, 58, 102201.	1.8	18
45	Climate change in the Iberian Upwelling System: a numerical study using GCM downscaling. Climate Dynamics, 2016, 47, 451-464.	1.7	17
46	Global diagnostic energetics of five state-of-the-art climate models. Climate Dynamics, 2011, 36, 1767-1794.	1.7	16
47	Modelling climate change impacts on attributable-related deaths and demographic changes in the largest metropolitan area in Portugal: A time-series analysis. Environmental Research, 2020, 190, 109998.	3.7	16
48	Nitrogen oxides and ozone in Portugal: trends and ozone estimation in an urban and a rural site. Environmental Science and Pollution Research, 2016, 23, 17171-17182.	2.7	15
49	Using a Physical Reference Frame to Study Global Circulation Variability. Journals of the Atmospheric Sciences, 2002, 59, 1490-1501.	0.6	14
50	Consequences of winter tropical pressure anomalies in the Australian region. International Journal of Climatology, 1992, 12, 419-434.	1.5	13
51	Regionalisation of precipitation for the Iberian Peninsula and climate change. Physics and Chemistry of the Earth, 2016, 94, 146-154.	1.2	13
52	Modelling of Temperature-Attributable Mortality among the Elderly in Lisbon Metropolitan Area, Portugal: A Contribution to Local Strategy for Effective Prevention Plans. Journal of Urban Health, 2021, 98, 516-531.	1.8	13
53	Bootstrap approach to validate the performance of models for predicting mortality risk temperature in Portuguese Metropolitan Areas. Environmental Health, 2019, 18, 25.	1.7	12
54	Highâ€frequency precipitation changes in southeastern Africa due to anthropogenic forcing. International Journal of Climatology, 2008, 28, 1239-1253.	1.5	11

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55	Variability of temperature and chlorophyll of the Iberian Peninsula near costal ecosystem during an upwelling event for the present climate and a future climate scenario. Journal of Marine Systems, 2014, 129, 271-288.	0.9	11
56	Robust inferences on climate change patterns of precipitation extremes in the Iberian Peninsula. Physics and Chemistry of the Earth, 2016, 94, 114-126.	1.2	11
57	Detecting spatio-temporal precipitation variability in Portugal using multichannel singular spectral analysis. International Journal of Climatology, 2006, 26, 2199-2212.	1.5	10
58	On the influence of physical parameterisations and domains configuration in the simulation of an extreme precipitation event. Dynamics of Atmospheres and Oceans, 2014, 68, 35-55.	0.7	10
59	A Consistent Methodology to Evaluate Temperature and Heat Wave Future Projections for Cities: A Case Study for Lisbon. Applied Sciences (Switzerland), 2020, 10, 1149.	1.3	10
60	Statistical Modelling of Temperature-Attributable Deaths in Portuguese Metropolitan Areas under Climate Change: Who Is at Risk?. Atmosphere, 2020, 11, 159.	1.0	10
61	Lisbon urban heat island in future urban and climate scenarios. Urban Climate, 2022, 44, 101218.	2.4	9
62	North Atlantic Oscillation sensitivity to the El NiÃ±o/Southern Oscillation polarity in a large-ensemble simulation. Climate Dynamics, 2005, 24, 599-606.	1.7	8
63	Analysis of climate change indices in relation to wine production: A case study in the Douro region (Portugal). BIO Web of Conferences, 2017, 9, 01011.	0.1	8
64	Solar irradiance modelling using an offline coupling procedure for the Weather Research and Forecasting (WRF) model. Solar Energy, 2019, 188, 339-352.	2.9	8
65	Assessing Douro Vineyards Exposure to Tropospheric Ozone. Atmosphere, 2021, 12, 200.	1.0	8
66	Study of Urban Heat Islands Using Different Urban Canopy Models and Identification Methods. Atmosphere, 2021, 12, 521.	1.0	8
67	Salinity modelling accuracy of a coastal lagoon: a comparative river flow analysis of basin model vs. traditional approaches. Journal of Coastal Research, 2014, 70, 586-591.	0.1	7
68	Projections of Temperature-Attributable Deaths in Portuguese Metropolitan Areas: A Time-Series Modelling Approach. Atmosphere, 2019, 10, 735.	1.0	7
69	Future Projections for Wind, Wind Shear and Helicity in the Iberian Peninsula. Atmosphere, 2020, 11, 1001.	1.0	7
70	Assessing future climate change in the Iberian Upwelling System. Journal of Coastal Research, 2013, 165, 1909-1914.	0.1	5
71	Simulation of a persistent medium-term precipitation event over the western Iberian Peninsula. Hydrology and Earth System Sciences, 2013, 17, 3741-3758.	1.9	5
72	Connection between autumn Sea Surface Temperature and winter precipitation in the Iberian Peninsula. Global and Planetary Change, 2014, 121, 9-18.	1.6	5

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73	Atmospheric rivers and associated precipitation patterns during the ACLOUD and PASCAL campaigns near Svalbard (Mayâ€“June 2017): case studies using observations, reanalyses, and a regional climate model. Atmospheric Chemistry and Physics, 2022, 22, 441-463.	1.9	5
74	Spatioâ€temporal patterns of pressure over the North Atlantic. International Journal of Climatology, 2010, 30, 2257-2263.	1.5	4
75	Numerical Simulation of Meso-Meteorological Circulations in the Lisbon Region. , 1994, , 53-61.		4
76	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.	1.7	3
77	A contribution to climate change assessment of storm surges along the coast of Mozambique. Journal of Coastal Research, 2014, 70, 253-258.	0.1	3
78	Annular versus Nonannular Variability of the Northern Hemisphere Atmospheric Circulation. Journal of Climate, 2008, 21, 3180-3190.	1.2	2
79	Climate Change and Fire Weather Risk. , 2001, , 555-565.		2
80	Changes in the normal mode energetics of the general atmospheric circulation in a warmer climate. Climate Dynamics, 2014, 42, 1887-1903.	1.7	1
81	Ozone Effects on Douro Vineyards under Climate Change. Atmosphere, 2021, 12, 1238.	1.0	1
82	Ozone Risk for Douro Vineyards in Present and Future Climates. Springer Proceedings in Complexity, 2020, , 439-444.	0.2	1