

Sonia Jerez

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,969
citations

186265

28
h-index

189892

50
g-index

66
all docs

66
docs citations

66
times ranked

3634
citing authors

#	ARTICLE	IF	CITATIONS
1	Exacerbated fires in Mediterranean Europe due to anthropogenic warming projected with non-stationary climate-fire models. <i>Nature Communications</i> , 2018, 9, 3821.	12.8	275
2	The impact of climate change on photovoltaic power generation in Europe. <i>Nature Communications</i> , 2015, 6, 10014.	12.8	236
3	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	2.9	227
4	Assessing climate change impacts on European wind energy from ENSEMBLES high-resolution climate projections. <i>Climatic Change</i> , 2015, 128, 99-112.	3.6	171
5	Climate drivers of the 2017 devastating fires in Portugal. <i>Scientific Reports</i> , 2019, 9, 13886.	3.3	167
6	Homogenization and Assessment of Observed Near-Surface Wind Speed Trends over Spain and Portugal, 1961â€“2011*. <i>Journal of Climate</i> , 2014, 27, 3692-3712.	3.2	132
7	Climate change impacts on the power generation potential of a European mid-century wind farms scenario. <i>Environmental Research Letters</i> , 2016, 11, 034013.	5.2	120
8	The Impact of the North Atlantic Oscillation on Renewable Energy Resources in Southwestern Europe. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 2204-2225.	1.5	98
9	Vulnerabilities and resilience of European power generation to 1.5â€‰Â°C, 2â€‰Â°C and 3â€‰Â°C warming. <i>Environmental Research Letters</i> , 2018, 13, 044024.	5.2	88
10	Sand invasion along the Portuguese coast forced by westerly shifts during cold climate events. <i>Quaternary Science Reviews</i> , 2012, 42, 15-28.	3.0	84
11	Trends of daily peak wind gusts in Spain and Portugal, 1961â€“2014. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1059-1078.	3.3	84
12	Projected changes in surface solar radiation in CMIP5 global climate models and in EURO-CORDEX regional climate models for Europe. <i>Climate Dynamics</i> , 2017, 49, 2665-2683.	3.8	82
13	A regional climate simulation over the Iberian Peninsula for the last millennium. <i>Climate of the Past</i> , 2011, 7, 451-472.	3.4	73
14	A multi-physics ensemble of present-day climate regional simulations over the Iberian Peninsula. <i>Climate Dynamics</i> , 2013, 40, 3023-3046.	3.8	66
15	Spatio-temporal Complementarity between Solar and Wind Power in the Iberian Peninsula. <i>Energy Procedia</i> , 2013, 40, 48-57.	1.8	59
16	Skilful forecasting of global fire activity using seasonal climate predictions. <i>Nature Communications</i> , 2018, 9, 2718.	12.8	57
17	What is the role of the observational dataset in the evaluation and scoring of climate models?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	56
18	Time-scale and extent at which large-scale circulation modes determine the wind and solar potential in the Iberian Peninsula. <i>Environmental Research Letters</i> , 2013, 8, 044035.	5.2	53

#	ARTICLE	IF	CITATIONS
19	Characterization of surface winds over the Iberian Peninsula. <i>International Journal of Climatology</i> , 2015, 35, 1007-1026.	3.5	47
20	The CLIMIX model: A tool to create and evaluate spatially-resolved scenarios of photovoltaic and wind power development. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1-15.	16.4	47
21	Future changes, or lack thereof, in the temporal variability of the combined wind-plus-solar power production in Europe. <i>Renewable Energy</i> , 2019, 139, 251-260.	8.9	45
22	The role of the land-surface model for climate change projections over the Iberian Peninsula. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
23	Impact of atmospheric circulation patterns on coastal dune dynamics, NW Spain. <i>Geomorphology</i> , 2013, 185, 96-109.	2.6	37
24	Internal and external variability in regional simulations of the Iberian Peninsula climate over the last millennium. <i>Climate of the Past</i> , 2012, 8, 25-36.	3.4	36
25	A 49 year hindcast of surface winds over the Iberian Peninsula. <i>International Journal of Climatology</i> , 2015, 35, 3007-3023.	3.5	35
26	Evaluating fire growth simulations using satellite active fire data. <i>Remote Sensing of Environment</i> , 2017, 190, 302-317.	11.0	34
27	Temperature sensitivity to the land-surface model in MM5 climate simulations over the Iberian Peninsula. <i>Meteorologische Zeitschrift</i> , 2010, 19, 363-374.	1.0	32
28	Warming patterns in regional climate change projections over the Iberian Peninsula. <i>Meteorologische Zeitschrift</i> , 2010, 19, 275-285.	1.0	32
29	Assessing the impact of measurement time interval when calculating wind speed means and trends under the stilling phenomenon. <i>International Journal of Climatology</i> , 2017, 37, 480-492.	3.5	32
30	Impact of the North Atlantic Oscillation on European aerosol ground levels through local processes: a seasonal model-based assessment using fixed anthropogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11195-11207.	4.9	31
31	Sensitivity of two Iberian lakes to North Atlantic atmospheric circulation modes. <i>Climate Dynamics</i> , 2015, 45, 3403-3417.	3.8	31
32	Impacts of climate change on ground level gas-phase pollutants and aerosols in the Iberian Peninsula for the late XXI century. <i>Atmospheric Environment</i> , 2012, 55, 483-495.	4.1	29
33	A multi-physics ensemble of regional climate change projections over the Iberian Peninsula. <i>Climate Dynamics</i> , 2013, 41, 1749-1768.	3.8	28
34	Coastal recirculation potential affecting air pollutants in Portugal: The role of circulation weather types. <i>Atmospheric Environment</i> , 2016, 135, 9-19.	4.1	27
35	An evaluation of offshore wind power production by floatable systems: A case study from SW Portugal. <i>Energy</i> , 2017, 131, 239-250.	8.8	27
36	Impact of evolving greenhouse gas forcing on the warming signal in regional climate model experiments. <i>Nature Communications</i> , 2018, 9, 1304.	12.8	27

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37	Assessment of ski condition reliability in the Spanish and Andorran Pyrenees for the second half of the 20th century. <i>Applied Geography</i> , 2017, 79, 127-142.	3.7	25
38	The response of piezometric levels in Portugal to NAO, EA, and SCAND climate patterns. <i>Journal of Hydrology</i> , 2019, 568, 1105-1117.	5.4	24
39	On the Spinâ€šUp Period in WRF Simulations Over Europe: Tradeâ€šOffs Between Length and Seasonality. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001945.	3.8	24
40	Isolating the effects of climate change in the variation of secondary inorganic aerosols (SIA) in Europe for the 21st century (1991â€š2100). <i>Atmospheric Environment</i> , 2011, 45, 1059-1063.	4.1	21
41	A seasonal study of the atmospheric dynamics over the Iberian Peninsula based on circulation types. <i>Theoretical and Applied Climatology</i> , 2012, 110, 291-310.	2.8	21
42	Comparison of two different sea-salt aerosol schemes as implemented in air quality models applied to the Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4833-4850.	4.9	18
43	Unusual Atmosphericâ€šRiverâ€šLike Structures Coming From Africa Induce Extreme Precipitation Over the Western Mediterranean Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031280.	3.3	14
44	Precipitation response to aerosolâ€šradiation and aerosolâ€šcloud interactions in regional climate simulations over Europe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 415-430.	4.9	13
45	A Global Probabilistic Dataset for Monitoring Meteorological Droughts. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1628-E1644.	3.3	12
46	Uncertainties in future ozone and PM10 projections over Europe from a regional climate multiphysics ensemble. <i>Geophysical Research Letters</i> , 2013, 40, 5764-5769.	4.0	9
47	Optimizing the execution of a parallel meteorology simulation code. , 2009, , .		8
48	Added Value of Aerosol-Cloud Interactions for Representing Aerosol Optical Depth in an Online Coupled Climate-Chemistry Model over Europe. <i>Atmosphere</i> , 2020, 11, 360.	2.3	8
49	Sensitivity of surface solar radiation to aerosolâ€šradiation and aerosolâ€šcloud interactions over Europe in WRFv3.6.1 climatic runs with fully interactive aerosols. <i>Geoscientific Model Development</i> , 2021, 14, 1533-1551.	3.6	8
50	EOLMAP: A web tool to assess the wind resource over Spain. <i>Renewable Energy and Power Quality Journal</i> , 0, , 1264-1269.	0.2	5
51	Impacts of Green Vegetation Fraction Derivation Methods on Regional Climate Simulations. <i>Atmosphere</i> , 2019, 10, 281.	2.3	4
52	Assessment of Aerosol-Radiation (ARI) and Aerosol-Cloud (ACI) Interactions from Dust: Modelled Dust Optical Properties and Remote Sensing Observations. <i>Springer Proceedings in Complexity</i> , 2018, , 183-187.	0.3	1
53	Future Air Pollution in Europe from a Multi-physics Ensemble of Climate Change-Air Quality Projections. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 3-7.	0.2	0