

# Juan P Montaña

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/534666/publications.pdf>

Version: 2024-02-01

76  
papers

3,842  
citations

186265

28  
h-index

133252

59  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Event selection for dynamical downscaling: a neural network approach for physically-constrained precipitation events. <i>Climate Dynamics</i> , 2022, 58, 2863-2879.	3.8	8
2	On the role of aerosols in the production of orographically-induced extreme rainfall in near-maritime environments. <i>Atmospheric Research</i> , 2022, 268, 106001.	4.1	3
3	Sensitivity of surface solar radiation to aerosol-radiation and aerosol-cloud 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
4	Temperature Response to Changes in Vegetation Fraction Cover in a Regional Climate Model. <i>Atmosphere</i> , 2021, 12, 599.	2.3	0
5	Northern Hemisphere atmospheric pattern enhancing Eastern Mediterranean Transient-type events during the past 1000 years. <i>Climate of the Past</i> , 2021, 17, 1523-1532.	3.4	1
6	Influence of sea salt aerosols on the development of Mediterranean tropical-like cyclones. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13353-13368.	4.9	4
7	Precipitation response to aerosol-radiation and aerosol-cloud interactions in regional climate simulations over Europe. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 415-430.	4.9	13
8	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.	3.3	14
9	On the Spin-Up Period in WRF Simulations Over Europe: Trade-Offs Between Length and Seasonality. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001945.	3.8	24
10	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
11	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020, 20, 1.	2.9	227
12	TITAM (v1.0): the Time-Independent Tracking Algorithm for Medicanes. <i>Geoscientific Model Development</i> , 2020, 13, 6051-6075.	3.6	6
13	The weather behind words - new methodologies for integrated hydrometeorological reconstruction through documentary sources. <i>Climate of the Past</i> , 2019, 15, 1303-1325.	3.4	7
14	Impacts of Green Vegetation Fraction Derivation Methods on Regional Climate Simulations. <i>Atmosphere</i> , 2019, 10, 281.	2.3	4
15	Saharan Dust Modeling Over the Mediterranean Basin and Central Europe: Does the Resolution Matter?. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	12
16	An open-source web mapping tool to estimate wind energy in the Iberian Peninsula. <i>Journal of Spatial Science</i> , 2019, 64, 153-172.	1.5	0
17	Consistency of climate change projections from multiple global and regional model intercomparison projects. <i>Climate Dynamics</i> , 2019, 52, 1139-1156.	3.8	39
18	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

#	ARTICLE	IF	CITATIONS
19	An assessment of aerosol optical properties from remote-sensing observations and regional chemistry-climate coupled models over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5021-5043.	4.9	18
20	A new region-aware bias-correction method for simulated precipitation in areas of complex orography. <i>Geoscientific Model Development</i> , 2018, 11, 2231-2247.	3.6	15
21	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
22	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
23	Biomass burning aerosol impact on surface winds during the 2010 Russian heat wave. <i>Geophysical Research Letters</i> , 2017, 44, 1088-1094.	4.0	14
24	Covariability of seasonal temperature and precipitation over the Iberian Peninsula in high-resolution regional climate simulations (1001-2099). <i>Global and Planetary Change</i> , 2017, 151, 122-133.	3.5	13
25	Evaluating and Improving the Impact of the Atmospheric Stability and Orography on Surface Winds in the WRF Model. <i>Monthly Weather Review</i> , 2016, 144, 2685-2693.	1.4	26
26	Characterization of the wind speed variability and future change in the Iberian Peninsula and the Balearic Islands. <i>Wind Energy</i> , 2016, 19, 1223-1237.	4.2	19
27	A regional climate palaeosimulation for Europe in the period 1500-1990 - Part 2: Shortcomings and strengths of models and reconstructions. <i>Climate of the Past</i> , 2015, 11, 1077-1095.	3.4	26
28	The impact of climate change on photovoltaic power generation in Europe. <i>Nature Communications</i> , 2015, 6, 10014.	12.8	236
29	A 49 year hindcast of surface winds over the Iberian Peninsula. <i>International Journal of Climatology</i> , 2015, 35, 3007-3023.	3.5	35
30	Characterization of surface winds over the Iberian Peninsula. <i>International Journal of Climatology</i> , 2015, 35, 1007-1026.	3.5	47
31	Attributing trends in extremely hot days to changes in atmospheric dynamics. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2143-2159.	3.6	4
32	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
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	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
35	Analysis of the long-term surface wind variability over complex terrain using a high spatial resolution WRF simulation. <i>Climate Dynamics</i> , 2013, 40, 1643-1656.	3.8	14
36	Relationship between wind power production and North Atlantic atmospheric circulation over the northeastern Iberian Peninsula. <i>Climate Dynamics</i> , 2013, 40, 935-949.	3.8	18

#	ARTICLE	IF	CITATIONS
37	Is there a common pattern of future gas-phase air pollution in Europe under diverse climate change scenarios?. Climatic Change, 2013, 121, 661-671.	3.6	14
38	Spatio-temporal Complementarity between Solar and Wind Power in the Iberian Peninsula. Energy Procedia, 2013, 40, 48-57.	1.8	59
39	The Impact of the North Atlantic Oscillation on Renewable Energy Resources in Southwestern Europe. Journal of Applied Meteorology and Climatology, 2013, 52, 2204-2225.	1.5	98
40	Impact of the North Atlantic Oscillation on European aerosol ground levels through local processes: a seasonal model-based assessment using fixed anthropogenic emissions. Atmospheric Chemistry and Physics, 2013, 13, 11195-11207.	4.9	31
41	Present-climate precipitation and temperature extremes over Spain from a set of high resolution RCMs. Climate Research, 2013, 58, 149-164.	1.1	45
42	An evaluation of WRF's ability to reproduce the surface wind over complex terrain based on typical circulation patterns. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7651-7669.	3.3	45
43	A regional climate palaeosimulation for Europe in the period 1500â€“1990 â€“ Part 1: Model validation. Climate of the Past, 2013, 9, 1667-1682.	3.4	27
44	Uncertainties in future ozone and PM10 projections over Europe from a regional climate multiphysics ensemble. Geophysical Research Letters, 2013, 40, 5764-5769.	4.0	9
45	Mean fields and interannual variability in RCM simulations over Spain: the ESCENA project. Climate Research, 2013, 57, 201-220.	1.1	25
46	What is the role of the observational dataset in the evaluation and scoring of climate models?. Geophysical Research Letters, 2012, 39, .	4.0	56
47	North Atlantic atmospheric circulation and surface wind in the Northeast of the Iberian Peninsula: uncertainty and long term downscaled variability. Climate Dynamics, 2012, 38, 141-160.	3.8	26
48	A Revised Scheme for the WRF Surface Layer Formulation. Monthly Weather Review, 2012, 140, 898-918.	1.4	1,021
49	The role of the landâ€“surface model for climate change projections over the Iberian Peninsula. Journal of Geophysical Research, 2012, 117, .	3.3	42
50	A seasonal study of the atmospheric dynamics over the Iberian Peninsula based on circulation types. Theoretical and Applied Climatology, 2012, 110, 291-310.	2.8	21
51	Estimating 750 years of temperature variations and uncertainties in the Pyrenees by tree-ring reconstructions and climate simulations. Climate of the Past, 2012, 8, 919-933.	3.4	56
52	Potential effects of climatic change on the distribution of Tetraclinis articulata, an endemic tree from arid Mediterranean ecosystems. Climatic Change, 2012, 113, 663-678.	3.6	14
53	Impacts of climate change on ground level gas-phase pollutants and aerosols in the Iberian Peninsula for the late XXI century. Atmospheric Environment, 2012, 55, 483-495.	4.1	29
54	Climate variability in Andalusia (southern Spain) during the period 1701â€“1850 based on documentary sources: evaluation and comparison with climate model simulations. Climate of the Past, 2012, 8, 117-133.	3.4	19

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	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
58	Isolating the effects of climate change in the variation of secondary inorganic aerosols (SIA) in Europe for the 21st century (1991â€“2100). <i>Atmospheric Environment</i> , 2011, 45, 1059-1063.	4.1	21
59	The Effect of Heat Waves and Drought on Surface Wind Circulations in the Northeast of the Iberian Peninsula during the Summer of 2003. <i>Journal of Climate</i> , 2011, 24, 5416-5422.	3.2	16
60	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
61	Effects of climatic change on the distribution and conservation of Mediterranean forests: the case of <i>Tetraclinis articulata</i> in the Iberian Peninsula. <i>Biodiversity and Conservation</i> , 2010, 19, 3809-3825.	2.6	14
62	Surface Wind Regionalization over Complex Terrain: Evaluation and Analysis of a High-Resolution WRF Simulation. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 268-287.	1.5	96
63	Warming patterns in regional climate change projections over the Iberian Peninsula. <i>Meteorologische Zeitschrift</i> , 2010, 19, 275-285.	1.0	32
64	Quality Assurance of Surface Wind Observations from Automated Weather Stations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1101-1122.	1.3	54
65	Optimizing the execution of a parallel meteorology simulation code. , 2009, , .		8
66	Climatology of wind patterns in the northeast of the Iberian Peninsula. <i>International Journal of Climatology</i> , 2009, 29, 501-525.	3.5	44
67	A comparison of methodologies for monthly wind energy estimation. <i>Wind Energy</i> , 2009, 12, 640-659.	4.2	39
68	The influence of the Weibull assumption in monthly wind energy estimation. <i>Wind Energy</i> , 2008, 11, 483-502.	4.2	34
69	A simple model for estimating the maximum intensity of nocturnal urban heat Island. <i>International Journal of Climatology</i> , 2008, 28, 235-242.	3.5	18
70	Surface Wind Regionalization in Complex Terrain. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 308-325.	1.5	49
71	Sensitivity of the MM5 mesoscale model to physical parameterizations for regional climate studies: Annual cycle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	65
72	EMAD: an empirical model of air-sea fluxes. <i>Meteorologische Zeitschrift</i> , 2005, 14, 755-762.	1.0	2

#	ARTICLE	IF	CITATIONS
73	Natural and anthropogenic modes of surface temperature variations in the last thousand years. Geophysical Research Letters, 2005, 32, .	4.0	88
74	A study of the Urban Heat Island of Granada. International Journal of Climatology, 2000, 20, 899-911.	3.5	163
75	A Monte Carlo Model Of The Nocturnal Surface Temperatures In Urban Canyons. Boundary-Layer Meteorology, 2000, 96, 433-452.	2.3	26
76	A Monte Carlo simulation of the longwave radiation balance in urban structures. Computer Physics Communications, 1999, 121-122, 704.	7.5	1