

# Victor Homar Santaner

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,557  
citations

201575

27  
h-index

197736

49  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2856  
citing authors

#	ARTICLE	IF	CITATIONS
1	A non-hydrostatic global spectral dynamical core using a height-based vertical coordinate. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 65, 20270.	0.8	3
2	Mediterranean cyclones: current knowledge and open questions on dynamics, prediction, climatology and impacts. <i>Weather and Climate Dynamics</i> , 2022, 3, 173-208.	1.2	61
3	The Sequence of Heavy Precipitation and Flash Flooding of 12 and 13 September 2019 in Eastern Spain. Part I: Mesoscale Diagnostic and Sensitivity Analysis of Precipitation. <i>Journal of Hydrometeorology</i> , 2021, 22, 1117-1138.	0.7	11
4	Potential of stochastic methods for improving convection-permitting ensemble forecasts of extreme events over the Western Mediterranean. <i>Atmospheric Research</i> , 2021, 257, 105571.	1.8	7
5	Exploring the limits of ensemble forecasting via solutions of the Liouville equation for realistic geophysical models. <i>Atmospheric Research</i> , 2020, 246, 105127.	1.8	3
6	Predictable and Unpredictable Climate Variability Impacts on Optimal Renewable Energy Mixes: The Example of Spain. <i>Energies</i> , 2020, 13, 5132.	1.6	8
7	Validation of the AROME, ALADIN and WRF Meteorological Models for Flood Forecasting in Morocco. <i>Water (Switzerland)</i> , 2020, 12, 437.	1.2	15
8	Tailored Ensemble Prediction Systems: Application of Seamless Scale Bred Vectors. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 1029-1050.	0.7	5
9	Hydro-meteorological reconstruction and geomorphological impact assessment of the October 2018 catastrophic flash flood at Sant Llorenç, Mallorca (Spain). <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2597-2617.	1.5	26
10	Scientific Challenges of Convective-Scale Numerical Weather Prediction. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 699-710.	1.7	82
11	Reviews and perspectives of high impact atmospheric processes in the Mediterranean. <i>Atmospheric Research</i> , 2018, 208, 4-44.	1.8	85
12	A Comparison of Ensemble Strategies for Flash Flood Forecasting: The 12 October 2007 Case Study in Valencia, Spain. <i>Journal of Hydrometeorology</i> , 2017, 18, 1143-1166.	0.7	17
13	Tropicalization process of the 7 November 2014 Mediterranean cyclone: Numerical sensitivity study. <i>Atmospheric Research</i> , 2017, 197, 300-312.	1.8	37
14	Losing water in temporary streams on a Mediterranean island: Effects of climate and land-cover changes. <i>Global and Planetary Change</i> , 2017, 148, 139-152.	1.6	29
15	Extension of summer climatic conditions into spring in the Western Mediterranean area. <i>International Journal of Climatology</i> , 2017, 37, 1938-1950.	1.5	14
16	PREGRIDBAL 1.0: towards a high-resolution rainfall atlas for the Balearic Islands (1950–2009). <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1061-1074.	1.5	7
17	On the drought in the Balearic Islands during the hydrological year 2015–2016. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 2351-2364.	1.5	5
18	Potentialities of ensemble strategies for flood forecasting over the Milano urban area. <i>Journal of Hydrology</i> , 2016, 539, 237-253.	2.3	41

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19	Introduction to the <sc>HyMeX S</sc>pecial Issue on "Advances in understanding and forecasting of heavy precipitation in the Mediterranean through the <sc>HyMeX SOP1</sc> field campaign"™. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1-6.	1.0	18
20	Potential of sequential EnKF for the short-range prediction of a maritime severe weather event. Atmospheric Research, 2016, 178-179, 426-444.	1.8	10
21	On the severe convective storm of 29 October 2013 in the Balearic Islands: observational and numerical study. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1208-1222.	1.0	24
22	Potential of a probabilistic hydrometeorological forecasting approach for the 28 September 2012 extreme flash flood in Murcia, Spain. Atmospheric Research, 2015, 166, 10-23.	1.8	27
23	HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. Bulletin of the American Meteorological Society, 2014, 95, 1063-1082.	1.7	288
24	Present and future climate resources for various types of tourism in the Bay of Palma, Spain. Regional Environmental Change, 2014, 14, 1995-2006.	1.4	31
25	Are current sensitivity products sufficiently informative in targeting campaigns? A DTS-MEDEX-2009 case study. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 525-538.	1.0	7
26	Projections of heat waves with high impact on human health in Europe. Global and Planetary Change, 2014, 119, 71-84.	1.6	88
27	Projections for the 21st century of the climate potential for beach-based tourism in the Mediterranean. International Journal of Climatology, 2014, 34, 3481-3498.	1.5	23
28	Daily precipitation records over mainland Spain and the Balearic Islands. Natural Hazards and Earth System Sciences, 2013, 13, 2483-2491.	1.5	18
29	Projections of the climate potential for tourism at local scales: application to Platja de Palma, Spain. International Journal of Climatology, 2012, 32, 2095-2107.	1.5	14
30	A Statistical Adjustment of Regional Climate Model Outputs to Local Scales: Application to Platja de Palma, Spain. Journal of Climate, 2012, 25, 939-957.	1.2	106
31	Initiation of a severe thunderstorm over the Mediterranean Sea. Atmospheric Research, 2011, 100, 603-620.	1.8	43
32	Ensemble prediction of Mediterranean high-impact events using potential vorticity perturbations. Part II: Adjoint-derived sensitivity zones. Atmospheric Research, 2011, 102, 311-319.	1.8	8
33	A new approach to sensitivity climatologies: the DTS-MEDEX-2009 campaign. Natural Hazards and Earth System Sciences, 2011, 11, 2381-2390.	1.5	11
34	Spatial heterogeneity in the effects of climate change on the population dynamics of a Mediterranean tortoise. Global Change Biology, 2011, 17, 3075-3088.	4.2	43
35	Verification of objective sensitivity climatologies of Mediterranean intense cyclones: test against human judgement. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 1467-1481.	1.0	5
36	Recent trends in temperature and precipitation over the Balearic Islands (Spain). Climatic Change, 2010, 98, 199-211.	1.7	55

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37	An optimized ensemble sensitivity climatology of Mediterranean intense cyclones. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 2441-2450.	1.5	14
38	The severe thunderstorm of 4 October 2007 in Mallorca: an observational study. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 1237-1245.	1.5	20
39	Ensemble sensitivities of the real atmosphere: application to Mediterranean intense cyclones. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2009, 61, 394-406.	0.8	28
40	Subjective versus objective sensitivity estimates: application to a North African cyclogenesis. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 1064-1078.	0.8	2
41	High-Dose Methylprednisolone in a Pregnant Woman with Crohn's Disease and Adrenal Suppression in Her Newborn. <i>Neonatology</i> , 2008, 94, 306-309.	0.9	37
42	Sensitivities of a Flash Flood Event over Catalonia: A Numerical Analysis. <i>Monthly Weather Review</i> , 2007, 135, 651-669.	0.5	31
43	Towards a systematic climatology of sensitivities of Mediterranean high impact weather: a contribution based on intense cyclones. <i>Natural Hazards and Earth System Sciences</i> , 2007, 7, 445-454.	1.5	46
44	Impact of the lateral boundary conditions resolution on dynamical downscaling of precipitation in mediterranean spain. <i>Climate Dynamics</i> , 2007, 29, 487-499.	1.7	11
45	Value of Human-Generated Perturbations in Short-Range Ensemble Forecasts of Severe Weather. <i>Weather and Forecasting</i> , 2006, 21, 347-363.	0.5	21
46	Predictability of prototype flash flood events in the Western Mediterranean under uncertainties of the precursor upper-level disturbance: the HYDROPTIMET case studies. <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 505-525.	1.5	17
47	Sensitivities of an intense Mediterranean cyclone: Analysis and validation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2519-2540.	1.0	27
48	Numerical diagnosis of a small, quasi-tropical cyclone over the western Mediterranean: Dynamical vs. boundary factors. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 1469-1490.	1.0	90
49	An estimate of the effects of climate change on the rainfall of Mediterranean Spain by the late twenty first century. <i>Climate Dynamics</i> , 2003, 20, 789-805.	1.7	80
50	Tornadoes over complex terrain: an analysis of the 28th August 1999 tornadic event in eastern Spain. <i>Atmospheric Research</i> , 2003, 67-68, 301-317.	1.8	36
51	Role of orography in the spatial distribution of precipitation over the Spanish Mediterranean zone. <i>Climate Research</i> , 2003, 23, 247-261.	0.4	38
52	The paradoxical increase of Mediterranean extreme daily rainfall in spite of decrease in total values. <i>Geophysical Research Letters</i> , 2002, 29, 31-1.	1.5	427
53	A deep cyclone of African origin over the Western Mediterranean: diagnosis and numerical simulation. <i>Annales Geophysicae</i> , 2002, 20, 93-106.	0.6	38
54	Numerical study of the October 2000 torrential precipitation event over eastern Spain: analysis of the synoptic-scale stationarity. <i>Annales Geophysicae</i> , 2002, 20, 2047-2066.	0.6	45

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55	Tornadoes and waterspouts in the Balearic Islands: phenomena and environment characterization. Atmospheric Research, 2001, 56, 253-267.	1.8	36
56	A synoptic and mesoscale diagnosis of a tornado outbreak in the Balearic Islands. Atmospheric Research, 2001, 56, 31-55.	1.8	36
57	Precipitation seasonality in eastern and southern coastal Spain. International Journal of Climatology, 2001, 21, 219-247.	1.5	127
58	A Case of Convection Development over the Western Mediterranean Sea: A Study through Numerical Simulations. Meteorology and Atmospheric Physics, 1999, 71, 169-188.	0.9	26
59	Diagnosis and numerical simulation of a torrential precipitation event in Catalonia (Spain). Meteorology and Atmospheric Physics, 1998, 69, 1-21.	0.9	44