Sixto Herrera GarcÃ-a

List of Publications by Year
in descending order

79 papers	3,616 citations	117453 34 h-index	143772 57 g-index
83 all docs	83 docs citations	83 times ranked	4205 citing authors

#	Article	IF	Citations
1	Development and analysis of a 50â€year highâ€resolution daily gridded precipitation dataset over Spain (Spain02). International Journal of Climatology, 2012, 32, 74-85.	1.5	268
2	An update of IPCC climate reference regions for subcontinental analysis of climate model data: definition and aggregated datasets. Earth System Science Data, 2020, 12, 2959-2970.	3.7	210
3	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor crossâ€validation experiment. International Journal of Climatology, 2019, 39, 3750-3785.	1.5	164
4	How well do CMIP5 Earth System Models simulate present climate conditions in Europe and Africa?. Climate Dynamics, 2013, 41, 803-817.	1.7	153
5	Reassessing Statistical Downscaling Techniques for Their Robust Application under Climate Change Conditions. Journal of Climate, 2013, 26, 171-188.	1.2	145
6	Global patterns in the sensitivity of burned area to fire-weather: Implications for climate change. Agricultural and Forest Meteorology, 2015, 214-215, 369-379.	1.9	136
7	Update of the Spain02 gridded observational dataset for EUROâ€CORDEX evaluation: assessing the effect of the interpolation methodology. International Journal of Climatology, 2016, 36, 900-908.	1.5	131
8	Evaluation of the mean and extreme precipitation regimes from the ENSEMBLES regional climate multimodel simulations over Spain. Journal of Geophysical Research, 2010, 115, .	3.3	121
9	A framework for species distribution modelling with improved pseudo-absence generation. Ecological Modelling, 2015, 312, 166-174.	1.2	117
10	Forest fire danger projections in the Mediterranean using ENSEMBLES regional climate change scenarios. Climatic Change, 2014, 122, 185-199.	1.7	115
11	Observational uncertainty and regional climate model evaluation: A panâ€European perspective. International Journal of Climatology, 2019, 39, 3730-3749.	1.5	98
12	Dangers of using global bioclimatic datasets for ecological niche modeling. Limitations for future climate projections. Global and Planetary Change, 2013, 107, 1-12.	1.6	94
13	Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. Climate Dynamics, 2016, 47, 719-737.	1.7	85
14	The R-based climate4R open framework for reproducible climate data access and post-processing. Environmental Modelling and Software, 2019, 111, 42-54.	1.9	81
15	On the Use of Reanalysis Data for Downscaling. Journal of Climate, 2012, 25, 2517-2526.	1.2	80
16	Dynamical and statistical downscaling of seasonal temperature forecasts in Europe: Added value for user applications. Climate Services, 2018, 9, 44-56.	1.0	79
17	Precipitation variability and trends in Ghana: An intercomparison of observational and reanalysis products. Climatic Change, 2014, 124, 805-819.	1.7	75
18	Uncertainty in gridded precipitation products: Influence of station density, interpolation method and grid resolution. International Journal of Climatology, 2019, 39, 3717-3729.	1.5	71

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19	Testing bias adjustment methods for regional climate change applications under observational uncertainty and resolution mismatch. Atmospheric Science Letters, 2020, 21, e978.	0.8	59
20	Bias correction and downscaling of future RCM precipitation projections using a MOSâ€Analog technique. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2631-2648.	1.2	54
21	Reassessing Model Uncertainty for Regional Projections of Precipitation with an Ensemble of Statistical Downscaling Methods. Journal of Climate, 2017, 30, 203-223.	1.2	53
22	Sensitivity of fire weather index to different reanalysis products in the Iberian Peninsula. Natural Hazards and Earth System Sciences, 2012, 12, 699-708.	1.5	52
23	Iberia01: a new gridded dataset of daily precipitation and temperatures over Iberia. Earth System Science Data, 2019, 11, 1947-1956.	3.7	51
24	Assessing the Skill of Precipitation and Temperature Seasonal Forecasts in Spain: Windows of Opportunity Related to ENSO Events. Journal of Climate, 2010, 23, 209-220.	1.2	50
25	Testing MOS precipitation downscaling for ENSEMBLES regional climate models over Spain. Journal of Geophysical Research, 2011, 116, .	3.3	50
26	Robust projections of Fire Weather Index in the Mediterranean using statistical downscaling. Climatic Change, 2013, 120, 229-247.	1.7	45
27	Towards a fair comparison of statistical and dynamical downscaling in the framework of the EURO-CORDEX initiative. Climatic Change, 2016, 137, 411-426.	1.7	42
28	Impact of cognitive impairment, depression, disease activity, and disease damage on quality of life in women with systemic lupus erythematosus. Scandinavian Journal of Rheumatology, 2017, 46, 273-280.	0.6	42
29	Validation of a new SAFRAN-based gridded precipitation product for Spain and comparisons to Spain02 and ERA-Interim. Hydrology and Earth System Sciences, 2017, 21, 2187-2201.	1.9	41
30	Large biases and inconsistent climate change signals in ENSEMBLES regional projections. Climatic Change, 2013, 120, 859-869.	1.7	40
31	Direct and component-wise bias correction of multi-variate climate indices: the percentile adjustment function diagnostic tool. Climatic Change, 2018, 147, 411-425.	1.7	40
32	Statistical downscaling with the downscaleR package (v3.1.0): contribution to the VALUE intercomparison experiment. Geoscientific Model Development, 2020, 13, 1711-1735.	1.3	40
33	Validation of the ENSEMBLES global climate Âmodels over southwestern Europe using probability density functions, from a downscaling perspective. Climate Research, 2011, 48, 145-161.	0.4	38
34	Assessing the predictability of fire occurrence and area burned across phytoclimatic regions in Spain. Natural Hazards and Earth System Sciences, 2014, 14, 53-66.	1.5	37
35	Dynamical and statistical downscaling of a global seasonal hindcast in eastern Africa. Climate Services, 2018, 9, 72-85.	1.0	36
36	Climate projections of a multivariate heat stress index: the role of downscaling and bias correction. Geoscientific Model Development, 2019, 12, 3419-3438.	1.3	33

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37	Statistical downscaling of climate impact indices: testing the direct approach. Climatic Change, 2014, 127, 547-560.	1.7	28
38	Validation of spatial variability in downscaling results from the VALUE perfect predictor experiment. International Journal of Climatology, 2019, 39, 3819-3845.	1.5	27
39	Evolution and frequency (1970â€“2007) of combined temperatureâ€“precipitation modes in the Spanish mountains and sensitivity of snow cover. Regional Environmental Change, 2013, 13, 873-885.	1.4	26
40	On the projection of future fire danger conditions with various instantaneous/mean-daily data sources. Climatic Change, 2013, 118, 827-840.	1.7	26
41	The ECOMS User Data Gateway: Towards seasonal forecast data provision and research reproducibility in the era of Climate Services. Climate Services, 2018, 9, 33-43.	1.0	25
42	A comparison of remotely-sensed and inventory datasets for burned area in Mediterranean Europe. International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101887.	1.4	25
43	An R package to visualize and communicate uncertainty in seasonal climate prediction. Environmental Modelling and Software, 2018, 99, 101-110.	1.9	24
44	Influence of seat-belt use on the severity of injury in traffic accidents. European Transport Research Review, 2020, 12, .	2.3	24
45	Assessing and Improving the Local Added Value of WRF for Wind Downscaling. Journal of Applied Meteorology and Climatology, 2015, 54, 1556-1568.	0.6	23
46	The Influence of Recognition and Social Support on European Health Professionalsâ€™ Occupational Stress: A Demands-Control-Social Support-Recognition Bayesian Network Model. BioMed Research International, 2017, 2017, 1-14.	0.9	23
47	Snow trends in Northern Spain: analysis and simulation with statistical downscaling methods. International Journal of Climatology, 2010, 30, 1795-1806.	1.5	20
48	Evaluation and projection of daily temperature percentiles from statistical and dynamical downscaling methods. Natural Hazards and Earth System Sciences, 2013, 13, 2089-2099.	1.5	19
49	Assessing variations of extreme indices inducing weather-hazards on critical infrastructures over Europeâ€”the INTACT framework. Climatic Change, 2018, 148, 123-138.	1.7	18
50	On the need of bias adjustment for more plausible climate change projections of extreme heat. Atmospheric Science Letters, 2022, 23, e1072.	0.8	18
51	The Role of Journey Purpose in Road Traffic Injuries: A Bayesian Network Approach. Journal of Advanced Transportation, 2019, 2019, 1-10.	0.9	16
52	Modelling wildfire occurrence at regional scale from land use/cover and climate change scenarios. Environmental Modelling and Software, 2021, 145, 105200.	1.9	16
53	Evaluation of the EUROâ€CORDEX Regional Climate Models Over the Iberian Peninsula: Observational Uncertainty Analysis. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032880.	1.2	15
54	Sensitivity analysis of driver's behavior and psychophysical conditions. Safety Science, 2020, 125, 104586.	2.6	14

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55	Added value of EURO-CORDEX high-resolution downscaling over the Iberian Peninsula revisited â€“ Part 1: Precipitation. Geoscientific Model Development, 2022, 15, 2635-2652.	1.3	14
56	The role of large-scale spatial patterns in the chaotic amplification of perturbations in a Lorenzâ€™96 model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 978.	0.8	13
57	Is Eurasian snow cover in October a reliable statistical predictor for the wintertime climate on the Iberian Peninsula?. International Journal of Climatology, 2014, 34, 1615-1627.	1.5	13
58	Added value of EURO-CORDEX high-resolution downscaling over the Iberian Peninsula revisited â€“ Part 2: Max and min temperature. Geoscientific Model Development, 2022, 15, 2653-2671.	1.3	13
59	Performance of radon monitors in a purpose-built radon chamber. Journal of Radiological Protection, 2018, 38, 1111-1127.	0.6	12
60	Blocking representation in the ERA-Interim driven EURO-CORDEX RCMs. Climate Dynamics, 2019, 52, 3291-3306.	1.7	12
61	The influence of employee training and information on the probability of accident rates. International Journal of Industrial Ergonomics, 2019, 72, 311-319.	1.5	11
62	Forecasting water temperature in lakes and reservoirs using seasonal climate prediction. Water Research, 2021, 201, 117286.	5.3	11
63	Intervalâ€based statistical validation of operational seasonal forecasts in Spain conditioned to El NiÃ±oâ€“Southern Oscillation events. Journal of Geophysical Research, 2008, 113, .	3.3	10
64	Cyclist Injury Severity in Spain: A Bayesian Analysis of Police Road Injury Data Focusing on Involved Vehicles and Route Environment. International Journal of Environmental Research and Public Health, 2020, 17, 96.	1.2	9
65	Designing AfriCultuReS services to support food security in Africa. Transactions in GIS, 2021, 25, 692-720.	1.0	9
66	Statistical downscaling of seasonal wave forecasts. Ocean Modelling, 2019, 138, 1-12.	1.0	8
67	Music Distraction among Young Drivers: Analysis by Gender and Experience. Journal of Advanced Transportation, 2020, 2020, 1-12.	0.9	8
68	Assessing Multidomain Overlaps and Grand Ensemble Generation in CORDEX Regional Projections. Geophysical Research Letters, 2020, 47, e2019GL086799.	1.5	8
69	On the contribution to the alignment during an organizational change: Measurement of job satisfaction with working conditions. Journal of Safety Research, 2021, 76, 289-300.	1.7	8
70	Spatio-temporal error growth in the multi-scale Lorenz'96 model. Nonlinear Processes in Geophysics, 2010, 17, 329-337.	0.6	7
71	The METACLIP semantic provenance framework for climate products. Environmental Modelling and Software, 2019, 119, 445-457.	1.9	7
72	Extreme Wave Storms and Atmospheric Variability at the Spanish Coast of the Bay of Biscay. Atmosphere, 2018, 9, 316.	1.0	6

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73	Assessment and Modeling of the Influence of Age, Gender, and Family History of Hearing Problems on the Probability of Suffering Hearing Loss in the Working Population. International Journal of Environmental Research and Public Health, 2020, 17, 8041.	1.2	6
74	Pedestriansâ€™ Injury Severity in Traffic Accidents in Spain: A Pedestrian Actions Approach. Sustainability, 2021, 13, 6439.	1.6	5
75	Future trends of snowfall days in northern Spain from ENSEMBLES regional climate projections. Climate Dynamics, 2016, 46, 3645-3655.	1.7	2
76	Evaluation of the ENSEMBLES Transient RCM Simulations Over Spain: Present Climate Performance and Future Projections. , 2015, , 199-203.		2
77	Comments on â€œGlobal and Regional Comparison of Daily 2-m and 1000-hPa Maximum and Minimum Temperatures in Three Global Reanalysesâ€• Journal of Climate, 2012, 25, 8004-8006.	1.2	1
78	Data on the working population in Spain related to training, workplace conditions and accident rates. Data in Brief, 2018, 21, 1810-1817.	0.5	0
79	Forecasting Nonlinear Systems with Neural Networks via Anticipated Synchronization. , 2008, , 341-349.		0