Jose M Gutierrez

List of Publications by Year
in descending order

125 papers	6,860 citations	57631 44 h-index	69108 77 g-index
129 all docs	129 docs citations	129 times ranked	6687 citing authors

#	Article	IF	Citations
1	Downscaling ECMWF seasonal precipitation forecasts in Europe using the RCA model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 757.	0.8	17
2	On the need of bias adjustment for more plausible climate change projections of extreme heat. Atmospheric Science Letters, 2022, 23, e1072.	0.8	18
3	Do CMIP models capture long-term observed annual precipitation trends?. Climate Dynamics, 2022, 58, 2825-2842.	1.7	20
4	Climate Trends and Extremes in the Indus River Basin, Pakistan: Implications for Agricultural Production. Atmosphere, 2022, 13, 378.	1.0	15
5	A Posteriori Random Forests for Stochastic Downscaling of Precipitation by Predicting Probability Distributions. Water Resources Research, 2022, 58, .	1.7	12
6	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
7	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
8	Internal variability versus multiâ€physics uncertainty in a regional climate model. International Journal of Climatology, 2021, 41, E656.	1.5	13
9	The CORDEX Flagship Pilot Study in southeastern South America: a comparative study of statistical and dynamical downscaling models in simulating daily extreme precipitation events. Climate Dynamics, 2021, 56, 1589-1608.	1.7	31
10	On the suitability of deep convolutional neural networks for continental-wide downscaling of climate change projections. Climate Dynamics, 2021, 57, 2941-2951.	1.7	20
11	Assessment of the Influence of Technology-Based Distracted Driving on Driversâ€™ Infractions and Their Subsequent Impact on Traffic Accidents Severity. International Journal of Environmental Research and Public Health, 2021, 18, 7155.	1.2	12
12	Statistical downscaling or bias adjustment? A case study involving implausible climate change projections of precipitation in Malawi. Climatic Change, 2020, 162, 1437-1453.	1.7	10
13	Configuration and intercomparison of deep learning neural models for statistical downscaling. Geoscientific Model Development, 2020, 13, 2109-2124.	1.3	89
14	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
15	Multisite Weather Generators Using Bayesian Networks: An Illustrative Case Study for Precipitation Occurrence. Water Resources Research, 2020, 56, e2019WR026416.	1.7	5
16	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
17	Influence of seat-belt use on the severity of injury in traffic accidents. European Transport Research Review, 2020, 12, .	2.3	24
18	Statistical adjustment, calibration and downscaling of seasonal forecasts: a case-study for Southeast Asia. Climate Dynamics, 2020, 54, 2869-2882.	1.7	9

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19	Assessing Multidomain Overlaps and Grand Ensemble Generation in CORDEX Regional Projections. Geophysical Research Letters, 2020, 47, e2019GL086799.	1.5	8
20	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. Regional Environmental Change, 2020, 20, 1.	1.4	227
21	Testing bias adjustment methods for regional climate change applications under observational uncertainty and resolution mismatch. Atmospheric Science Letters, 2020, 21, e978.	0.8	59
22	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
23	Process-conditioned bias correction for seasonal forecasting: a case-study with ENSO in Peru. Climate Dynamics, 2019, 52, 1673-1683.	1.7	12
24	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor cross€validation experiment. International Journal of Climatology, 2019, 39, 3750-3785.	1.5	164
25	Who learns better Bayesian network structures: Accuracy and speed of structure learning algorithms. International Journal of Approximate Reasoning, 2019, 115, 235-253.	1.9	109
26	Blocking representation in the ERA-Interim driven EURO-CORDEX RCMs. Climate Dynamics, 2019, 52, 3291-3306.	1.7	12
27	Bias adjustment and ensemble recalibration methods for seasonal forecasting: a comprehensive intercomparison using the C3S dataset. Climate Dynamics, 2019, 53, 1287-1305.	1.7	50
28	Validation of spatial variability in downscaling results from the VALUE perfect predictor experiment. International Journal of Climatology, 2019, 39, 3819-3845.	1.5	27
29	Adjusting climate model bias for agricultural impact assessment: How to cut the mustard. Climate Services, 2019, 13, 65-69.	1.0	22
30	Psychosocial and Ergonomic Conditions at Work: Influence on the Probability of a Workplace Accident. BioMed Research International, 2019, 2019, 1-13.	0.9	6
31	Process€based evaluation of the VALUE perfect predictor experiment of statistical downscaling methods. International Journal of Climatology, 2019, 39, 3868-3893.	1.5	32
32	Statistical downscaling skill under present climate conditions: A synthesis of the VALUE perfect predictor experiment. International Journal of Climatology, 2019, 39, 3692-3703.	1.5	51
33	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
34	The VALUE perfect predictor experiment: Evaluation of temporal variability. International Journal of Climatology, 2019, 39, 3786-3818.	1.5	47
35	Observational uncertainty and regional climate model evaluation: A pan€European perspective. International Journal of Climatology, 2019, 39, 3730-3749.	1.5	98
36	Consistency of climate change projections from multiple global and regional model intercomparison projects. Climate Dynamics, 2019, 52, 1139-1156.	1.7	39

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37	Comparison of statistical downscaling methods with respect to extreme events over Europe: Validation results from the perfect predictor experiment of the COST Action VALUE. International Journal of Climatology, 2019, 39, 3846-3867.	1.5	64
38	Iberia01: a new gridded dataset of daily precipitation and temperatures over Iberia. Earth System Science Data, 2019, 11, 1947-1956.	3.7	51
39	Background sampling and transferability of species distribution model ensembles under climate change. Global and Planetary Change, 2018, 166, 19-29.	1.6	28
40	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
41	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
42	Can bias correction and statistical downscaling methods improve the skill of seasonal precipitation forecasts?. Climate Dynamics, 2018, 50, 1161-1176.	1.7	45
43	Seasonal predictions of Fire Weather Index: Paving the way for their operational applicability in Mediterranean Europe. Climate Services, 2018, 9, 101-110.	1.0	57
44	Dynamical and statistical downscaling of a global seasonal hindcast in eastern Africa. Climate Services, 2018, 9, 72-85.	1.0	36
45	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
46	Twentieth-century atmospheric river activity along the west coasts of Europe and North America: algorithm formulation, reanalysis uncertainty and links to atmospheric circulation patterns. Climate Dynamics, 2017, 48, 2771-2795.	1.7	61
47	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
48	Towards process-informed bias correction of climate change simulations. Nature Climate Change, 2017, 7, 764-773.	8.1	329
49	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
50	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
51	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
52	Future trends of snowfall days in northern Spain from ENSEMBLES regional climate projections. Climate Dynamics, 2016, 46, 3645-3655.	1.7	2
53	<scp>VALUE</scp>: A framework to validate downscaling approaches for climate change studies. Earth's Future, 2015, 3, 1-14.	2.4	167
54	Fire activity as a function of fireâ€"weather seasonal severity and antecedent climate across spatial scales in southern Europe and Pacific western USA. Environmental Research Letters, 2015, 10, 114013.	2.2	85

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55	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
56	Statistical Downscaling in the Tropics Can Be Sensitive to Reanalysis Choice: A Case Study for Precipitation in the Philippines. Journal of Climate, 2015, 28, 4171-4184.	1.2	38
57	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
58	Different approaches to model future burnt area in the Iberian Peninsula. Agricultural and Forest Meteorology, 2015, 202, 11-25.	1.9	72
59	Evaluation of the ENSEMBLES Transient RCM Simulations Over Spain: Present Climate Performance and Future Projections. , 2015, , 199-203.		2
60	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
61	Statistical downscaling of climate impact indices: testing the direct approach. Climatic Change, 2014, 127, 547-560.	1.7	28
62	Forest fire danger projections in the Mediterranean using ENSEMBLES regional climate change scenarios. Climatic Change, 2014, 122, 185-199.	1.7	115
63	High-resolution sea wind hindcasts over the Mediterranean area. Climate Dynamics, 2014, 42, 1857-1872.	1.7	81
64	Precipitation variability and trends in Ghana: An intercomparison of observational and reanalysis products. Climatic Change, 2014, 124, 805-819.	1.7	75
65	Validation of 40 year multimodel seasonal precipitation forecasts: The role of ENSO on the global skill. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1708-1719.	1.2	49
66	How well do CMIP5 Earth System Models simulate present climate conditions in Europe and Africa?. Climate Dynamics, 2013, 41, 803-817.	1.7	153
67	Reassessing Statistical Downscaling Techniques for Their Robust Application under Climate Change Conditions. Journal of Climate, 2013, 26, 171-188.	1.2	145
68	Large biases and inconsistent climate change signals in ENSEMBLES regional projections. Climatic Change, 2013, 120, 859-869.	1.7	40
69	Robust projections of Fire Weather Index in the Mediterranean using statistical downscaling. Climatic Change, 2013, 120, 229-247.	1.7	45
70	On the projection of future fire danger conditions with various instantaneous/mean-daily data sources. Climatic Change, 2013, 118, 827-840.	1.7	26
71	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
72	Using Bayesian networks to analyze occupational stress caused by work demands: Preventing stress through social support. Accident Analysis and Prevention, 2013, 57, 114-123.	3.0	41

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73	Bayesian network analysis of safety culture and organizational culture in a nuclear power plant. Safety Science, 2013, 53, 82-95.	2.6	51
74	Information processing using an electro-optic oscillator subject to multiple delay lines. , 2013, , .		0
75	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
76	Photonic single nonlinear-delay dynamical node for information processing. Proceedings of SPIE, 2012, , .	0.8	0
77	Photonic information processing beyond Turing: an optoelectronic implementation of reservoir computing. Optics Express, 2012, 20, 3241.	1.7	619
78	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
79	Seasonal Predictability of Wintertime Precipitation in Europe Using the Snow Advance Index. Journal of Climate, 2012, 25, 4023-4028.	1.2	29
80	On the Use of Reanalysis Data for Downscaling. Journal of Climate, 2012, 25, 2517-2526.	1.2	80
81	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
82	Future regional projections of extreme temperatures in Europe: a nonstationary seasonal approach. Climatic Change, 2012, 113, 371-392.	1.7	32
83	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
84	Testing MOS precipitation downscaling for ENSEMBLES regional climate models over Spain. Journal of Geophysical Research, 2011, 116, .	3.3	50
85	Predicting plant species distribution across an alpine rangeland in northern Spain. A comparison of probabilistic methods. Applied Vegetation Science, 2011, 14, 415-432.	0.9	34
86	The human genome: a multifractal analysis. BMC Genomics, 2011, 12, 506.	1.2	34
87	Benefits and requirements of grid computing for climate applications. An example with the community atmospheric model. Environmental Modelling and Software, 2011, 26, 1057-1069.	1.9	23
88	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
89	Snow trends in Northern Spain: analysis and simulation with statistical downscaling methods. International Journal of Climatology, 2010, 30, 1795-1806.	1.5	20
90	Spatio-temporal error growth in the multi-scale Lorenz'96 model. Nonlinear Processes in Geophysics, 2010, 17, 329-337.	0.6	7

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91	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
92	The Caenorhabditis elegans genome: a multifractal analysis. Genetics and Molecular Research, 2010, 9, 949-965.	0.3	11
93	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
94	MVL spatiotemporal analysis for model intercomparison in EPS: application to the DEMETER multi-model ensemble. Climate Dynamics, 2009, 33, 233-243.	1.7	10
95	Execution management in the GRID, for sensitivity studies of global climate simulations. Earth Science Informatics, 2009, 2, 75-82.	1.6	6
96	Experimental mastering of nonlinear dynamics in circuits by sporadic pulses. Chaos, Solitons and Fractals, 2008, 36, 635-645.	2.5	6
97	Logarithmic bred vectors. A new ensemble method with adjustable spread and calibration time. Journal of Geophysical Research, 2008, 113, .	3.3	17
98	Interval–based statistical validation of operational seasonal forecasts in Spain conditioned to El Niño–Southern Oscillation events. Journal of Geophysical Research, 2008, 113, .	3.3	10
99	Spatiotemporal characterization of Ensemble Prediction Systems – the Mean-Variance of Logarithms (MVL) diagram. Nonlinear Processes in Geophysics, 2008, 15, 109-114.	0.6	13
100	Forecasting Nonlinear Systems with Neural Networks via Anticipated Synchronization. , 2008, , 341-349.		0
101	Error Growth Patterns in Systems with Spatial Chaos: From Coupled Map Lattices to Global Weather Models. Physical Review Letters, 2007, 98, 108501.	2.9	16
102	Nonlinear dynamics reconstruction with neural networks of chaotic time-delay communication systems. AIP Conference Proceedings, 2007, , .	0.3	2
103	Statistical linguistic characterization of variability in observed and synthetic daily precipitation series. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 389-402.	1.2	5
104	CHAOS GAME CHARACTERIZATION OF TEMPORAL PRECIPITATION VARIABILITY: APPLICATION TO REGIONALIZATION. Fractals, 2006, 14, 87-99.	1.8	7
105	Nonlinear dynamics extraction for time-delay systems using modular neural networks synchronization and prediction. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 133-141.	1.2	65
106	Statistical and dynamical downscaling of precipitation over Spain from DEMETER seasonal forecasts. Tellus, Series A: Dynamic Meteorology and Oceanography, 2005, 57, 409-423.	0.8	56
107	Analysis and downscaling multi-model seasonal forecasts in Peru using self-organizing maps. Tellus, Series A: Dynamic Meteorology and Oceanography, 2005, 57, 435-447.	0.8	43
108	Approach to predictability via anticipated synchronization. Physical Review E, 2005, 72, 046218.	0.8	19

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109	Clustering Methods for Statistical Downscaling in Short-Range Weather Forecasts. Monthly Weather Review, 2004, 132, 2169-2183.	0.5	60
110	Applications of Bayesian Networks in Meteorology. Studies in Fuzziness and Soft Computing, 2004, , 309-328.	0.6	47
111	Extraction of nonlinear dynamics for laser diodes with feedback in chaotic regime. , 2004, , .		3
112	Some Applications of Functional Networks in Statistics and Engineering. Technometrics, 2001, 43, 10-24.	1.3	86
113	Multifractal analysis of DNA sequences using a novel chaos-game representation. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 271-284.	1.2	36
114	Optimal Modular Feedfroward Neural Nets Based on Functional Network Architectures. Lecture Notes in Computer Science, 2001, , 308-315.	1.0	1
115	Functional Networks: A New Networkâ€Based Methodology. Computer-Aided Civil and Infrastructure Engineering, 2000, 15, 90-106.	6.3	54
116	Some Learning Methods in Functional Networks. Computer-Aided Civil and Infrastructure Engineering, 2000, 15, 426-438.	6.3	22
117	A Minimax Method for Learning Functional Networks. Neural Processing Letters, 2000, 11, 39-49.	2.0	31
118	Functional Networks with Applications. , 1999, , .		44
119	Modeling Probabilistic Networks of Discrete and Continuous Variables. Journal of Multivariate Analysis, 1998, 64, 48-65.	0.5	12
120	Expert Systems and Probabilistic Network Models. Texts and Monographs in Computer Science, 1997, , .	0.7	405
121	A modified simulation scheme for inference in Bayesian networks. International Journal of Approximate Reasoning, 1996, 14, 55-80.	1.9	27
122	A new method for efficient symbolic propagation in discrete Bayesian networks. Networks, 1996, 28, 31-43.	1.6	28
123	Parametric structure of probabilities in Bayesian networks. Lecture Notes in Computer Science, 1995, , 89-98.	1.0	7
124	Causal Network Models in Expert Systems. Computer-Aided Civil and Infrastructure Engineering, 1994, 9, 315-328.	6.3	4
125	Logistic map driven by dichotomous noise. Physical Review E, 1993, 48, 2507-2513.	0.8	20