

Douglas Maraun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

5,262
citations

35
h-index

72
g-index

76
ext. papers

6,620
ext. citations

5.2
avg, IF

6.39
L-index

#	Paper	IF	Citations
71	Downscaling of climate change scenarios for a high-resolution, site-specific assessment of drought stress risk for two viticultural regions with heterogeneous landscapes. <i>Earth System Dynamics</i> , 2022 , 13, 911-934	4.8	0
70	Regional Climate Model Biases, Their Dependence on Synoptic Circulation Biases and the Potential for Bias Adjustment: A Process-Oriented Evaluation of the Austrian Regional Climate Projections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD032824	4.4	4
69	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. <i>Climate Dynamics</i> , 2021 , 57, 275-302	4.2	31
68	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 333-347	3.7	179
67	Event-Based Landslide Modeling in the Styrian Basin, Austria: Accounting for Time-Varying Rainfall and Land Cover. <i>Geosciences (Switzerland)</i> , 2020 , 10, 217	2.7	9
66	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. <i>Regional Environmental Change</i> , 2020 , 20, 1	4.3	104
65	Climate projections for glacier change modelling over the Himalayas. <i>International Journal of Climatology</i> , 2020 , 40, 1738-1754	3.5	10
64	Compilation of a guideline providing comprehensive information on freely available climate change data and facilitating their efficient retrieval. <i>Climate Services</i> , 2020 , 19, 100179	3.8	2
63	More meteorological events that drive compound coastal flooding are projected under climate change. <i>Communications Earth & Environment</i> , 2020 , 1, 47	6.1	18
62	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. <i>Climate Dynamics</i> , 2020 , 55, 3-34	4.2	103
61	Testing bias adjustment methods for regional climate change applications under observational uncertainty and resolution mismatch. <i>Atmospheric Science Letters</i> , 2020 , 21, e978	2.4	17
60	Increased probability of compound long-duration dry and hot events in Europe during summer (1950-2013). <i>Environmental Research Letters</i> , 2019 , 14, 094006	6.2	46
59	Validation of spatial variability in downscaling results from the VALUE perfect predictor experiment. <i>International Journal of Climatology</i> , 2019 , 39, 3819	3.5	12
58	Adjusting climate model bias for agricultural impact assessment: How to cut the mustard. <i>Climate Services</i> , 2019 , 13, 65-69	3.8	12
57	An intercomparison of a large ensemble of statistical downscaling methods over Europe: Results from the VALUE perfect predictor cross-validation experiment. <i>International Journal of Climatology</i> , 2019 , 39, 3750-3785	3.5	101
56	Higher probability of compound flooding from precipitation and storm surge in Europe under anthropogenic climate change. <i>Science Advances</i> , 2019 , 5, eaaw5531	14.3	122
55	Process-based evaluation of the VALUE perfect predictor experiment of statistical downscaling methods. <i>International Journal of Climatology</i> , 2019 , 39, 3868-3893	3.5	19

54	Statistical downscaling skill under present climate conditions: A synthesis of the VALUE perfect predictor experiment. <i>International Journal of Climatology</i> , 2019 , 39, 3692-3703	3.5	31
53	Uncertainty in gridded precipitation products: Influence of station density, interpolation method and grid resolution. <i>International Journal of Climatology</i> , 2019 , 39, 3717-3729	3.5	44
52	The VALUE perfect predictor experiment: Evaluation of temporal variability. <i>International Journal of Climatology</i> , 2019 , 39, 3786-3818	3.5	31
51	Comparison of statistical downscaling methods with respect to extreme events over Europe: Validation results from the perfect predictor experiment of the COST Action VALUE. <i>International Journal of Climatology</i> , 2019 , 39, 3846-3867	3.5	41
50	Challenges to link climate change data provision and user needs: Perspective from the COST-action VALUE. <i>International Journal of Climatology</i> , 2019 , 39, 3704-3716	3.5	15
49	Statistical Downscaling and Bias Correction for Climate Research 2018 ,		111
48	Storylines: an alternative approach to representing uncertainty in physical aspects of climate change. <i>Climatic Change</i> , 2018 , 151, 555-571	4.5	130
47	Cross-validation of bias-corrected climate simulations is misleading. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4867-4873	5.5	19
46	Soil Moisture Drought in Europe: A Compound Event of Precipitation and Potential Evapotranspiration on Multiple Time Scales. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1255-1271	3.7	45
45	Towards process-informed bias correction of climate change simulations. <i>Nature Climate Change</i> , 2017 , 7, 764-773	21.4	202
44	Multivariate statistical modelling of compound events via pair-copula constructions: analysis of floods in Ravenna (Italy). <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 2701-2723	5.5	109
43	A combined statistical bias correction and stochastic downscaling method for precipitation. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 1693-1719	5.5	43
42	Bias Correcting Climate Change Simulations - a Critical Review. <i>Current Climate Change Reports</i> , 2016 , 2, 211-220	9	294
41	Rising Mediterranean Sea Surface Temperatures Amplify Extreme Summer Precipitation in Central Europe. <i>Scientific Reports</i> , 2016 , 6, 32450	4.9	53
40	Reply to Comment on Bias Correction, Quantile Mapping, and Downscaling: Revisiting the Inflation Issue <i>Journal of Climate</i> , 2016 , 29, 8669-8671	4.4	1
39	Extreme Precipitation in an Atmosphere General Circulation Model: Impact of Horizontal and Vertical Model Resolutions. <i>Journal of Climate</i> , 2015 , 28, 1184-1205	4.4	23
38	Crucial role of Black Sea warming in amplifying the 2012 Krymsk precipitation extreme. <i>Nature Geoscience</i> , 2015 , 8, 615-619	18.3	76
37	VALUE: A framework to validate downscaling approaches for climate change studies. <i>Earth's Future</i> , 2015 , 3, 1-14	7.9	112

36	Evidence for added value of convection-permitting models for studying changes in extreme precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12500-12513	4.4	26
35	How well do regional climate models simulate the spatial dependence of precipitation? An application of pair-copula constructions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2624-2646 ¹³	4.4	13
34	The representation of location by a regional climate model in complex terrain. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 3449-3456	5.5	30
33	Projected Change Models and Methodology. <i>Regional Climate Studies</i> , 2015 , 189-215		4
32	Stochastic Model Output Statistics for Bias Correcting and Downscaling Precipitation Including Extremes. <i>Journal of Climate</i> , 2014 , 27, 6940-6959	4.4	47
31	Comparison of GCM- and RCM-simulated precipitation following stochastic postprocessing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,040-11,053	4.4	47
30	Reply to Comment on Bias Correction, Quantile Mapping, and Downscaling: Revisiting the Inflation Issue. <i>Journal of Climate</i> , 2014 , 27, 1821-1825	4.4	8
29	Bias Correction, Quantile Mapping, and Downscaling: Revisiting the Inflation Issue. <i>Journal of Climate</i> , 2013 , 26, 2137-2143	4.4	353
28	Improving Antarctic Total Ozone Projections by a Process-Oriented Multiple Diagnostic Ensemble Regression. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 3959-3976	2.1	19
27	When will trends in European mean and heavy daily precipitation emerge?. <i>Environmental Research Letters</i> , 2013 , 8, 014004	6.2	73
26	Validation of the present day annual cycle in heavy precipitation over the British Islands simulated by 14 RCMs. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		8
25	Nonstationarities of regional climate model biases in European seasonal mean temperature and precipitation sums. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	181
24	The influence of synoptic airflow on UK daily precipitation extremes. Part II: regional climate model and E-OBS data validation. <i>Climate Dynamics</i> , 2012 , 39, 287-301	4.2	26
23	Changes in the annual cycle of heavy precipitation across the British Isles within the 21st century. <i>Environmental Research Letters</i> , 2012 , 7, 044029	6.2	3
22	The influence of synoptic airflow on UK daily precipitation extremes. Part I: Observed spatio-temporal relationships. <i>Climate Dynamics</i> , 2011 , 36, 261-275	4.2	45
21	Characterisation of extreme winter precipitation in Mediterranean coastal sites and associated anomalous atmospheric circulation patterns. <i>Natural Hazards and Earth System Sciences</i> , 2010 , 10, 1037-1050	3.9	124
20	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	1021
19	Synoptic airflow and UK daily precipitation extremes. <i>Extremes</i> , 2010 , 13, 133-153	0.7	37

18	Dynamics in Complex Systems. <i>European Review</i> , 2009 , 17, 357-370	0.3	10
17	The annual cycle of heavy precipitation across the United Kingdom: a model based on extreme value statistics. <i>International Journal of Climatology</i> , 2009 , 29, 1731-1744	3.5	39
16	Modelling seasonality in extreme precipitation. <i>European Physical Journal: Special Topics</i> , 2009 , 174, 99-111	1.1	37
15	United Kingdom daily precipitation intensity: improved early data, error estimates and an update from 2000 to 2006. <i>International Journal of Climatology</i> , 2008 , 28, 833-842	3.5	82
14	What drives high flow events in the Swiss Alps? Recent developments in wavelet spectral analysis and their application to hydrology. <i>Advances in Water Resources</i> , 2007 , 30, 2511-2525	4.7	92
13	Nonstationary Gaussian processes in wavelet domain: synthesis, estimation, and significance testing. <i>Physical Review E</i> , 2007 , 75, 016707	2.4	128
12	Continuous wavelet spectral analysis of climate dynamics. <i>World Scientific Lecture Notes in Complex Systems</i> , 2007 , 325-346		
11	A conceptual ENSO model under realistic noise forcing. <i>Nonlinear Processes in Geophysics</i> , 2006 , 13, 275-285	2.5	7
10	Epochs of phase coherence between El Niño/Southern Oscillation and Indian monsoon. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	75
9	Tempting long-memory - on the interpretation of DFA results. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 495-503	2.9	146
8	Cosmic rays, carbon dioxide, and climate. <i>Eos</i> , 2004 , 85, 38	1.5	31
7	Reply [to Cosmic rays, carbon dioxide, and climate] <i>Eos</i> , 2004 , 85, 511-511	1.5	3
6	IDENTIFICATION OF RATE CONSTANTS AND NONOBSERVABLE ABSORPTION SPECTRA IN NONLINEAR BIOCHEMICAL REACTION DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 2081-2092	2	2
5	Cross wavelet analysis: significance testing and pitfalls. <i>Nonlinear Processes in Geophysics</i> , 2004 , 11, 505-514	5.1	363
4	Higher potential compound flood risk in Northern Europe under anthropogenic climate change		3
3	The representation of location by regional climate models in complex terrain		4
2	Emerging new climate extremes over Europe. <i>Climate Dynamics</i> , 1	4.2	3
1	Stochastic downscaling of gridded precipitation to spatially coherent subgrid precipitation fields using a transformed Gaussian model. <i>International Journal of Climatology</i> ,	3.5	1

