

Martin Widmann

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.

48
papers

5,447
citations

30
h-index

61
g-index

61
ext. papers

6,296
ext. citations

6.6
avg, IF

5.56
L-index

#	Paper	IF	Citations
48	Evaluation of the performance of Euro-CORDEX Regional Climate Models for assessing hydrological climate change impacts in Great Britain: A comparison of different spatial resolutions and quantile mapping bias correction methods. <i>Journal of Hydrology</i> , 2020 , 584, 124653	6	16
47	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
46	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
45	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
44	Diving into the Past: A Paleo Data Model Comparison Workshop on the Late Glacial and Holocene. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, ES1-ES4	6.1	4
43	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
42	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
41	The VALUE perfect predictor experiment: Evaluation of temporal variability. <i>International Journal of Climatology</i> , 2019 , 39, 3786-3818	3.5	31
40	Statistical Downscaling and Bias Correction for Climate Research 2018 ,		111
39	Cross-validation of bias-corrected climate simulations is misleading. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4867-4873	5.5	19
38	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
37	Towards process-informed bias correction of climate change simulations. <i>Nature Climate Change</i> , 2017 , 7, 764-773	21.4	202
36	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
35	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
34	Assimilating continental mean temperatures to reconstruct the climate of the late pre-industrial period. <i>Climate Dynamics</i> , 2016 , 46, 3547-3566	4.2	9
33	Influence of proxy data uncertainty on data assimilation for the past climate. <i>Climate of the Past</i> , 2016 , 12, 1555-1563	3.9	4
32	VALUE: A framework to validate downscaling approaches for climate change studies. <i>Earth's Future</i> , 2015 , 3, 1-14	7.9	112

31	On-line and off-line data assimilation in palaeoclimatology: a case study. <i>Climate of the Past</i> , 2015 , 11, 81-93	3.9	37
30	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
29	Downscaling of GCM-Simulated Precipitation Using Model Output Statistics. <i>Journal of Climate</i> , 2014 , 27, 312-324	4.4	37
28	Stochastic Model Output Statistics for Bias Correcting and Downscaling Precipitation Including Extremes. <i>Journal of Climate</i> , 2014 , 27, 6940-6959	4.4	47
27	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
26	Pacific SST influence on spring precipitation in Addis Ababa, Ethiopia. <i>International Journal of Climatology</i> , 2014 , 34, 1223-1235	3.5	4
25	Overview of data assimilation methods. <i>PAGES News</i> , 2013 , 21, 72-73		14
24	Transient state estimation in paleoclimatology using data assimilation. <i>PAGES News</i> , 2013 , 21, 74-75		6
23	Skill, Correction, and Downscaling of GCM-Simulated Precipitation. <i>Journal of Climate</i> , 2012 , 25, 3970-3984	4.4	123
22	Using data assimilation to study extratropical Northern Hemisphere climate over the last millennium. <i>Climate of the Past</i> , 2010 , 6, 627-644	3.9	73
21	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
20	Evaluation of the skill and added value of a reanalysis-driven regional simulation for Alpine temperature. <i>International Journal of Climatology</i> , 2010 , 30, 760-773	3.5	66
19	Historical SAM Variability. Part I: Century-Length Seasonal Reconstructions*. <i>Journal of Climate</i> , 2009 , 22, 5319-5345	4.4	74
18	Mid- to Late Holocene climate change: an overview. <i>Quaternary Science Reviews</i> , 2008 , 27, 1791-1828	3.9	1166
17	Transient simulations, empirical reconstructions and forcing mechanisms for the Mid-holocene hydrological climate in southern Patagonia. <i>Climate Dynamics</i> , 2007 , 29, 333-355	4.2	53
16	40. Chronology and climate forcing of the last four interglacials. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 597-614	0.5	2
15	34. Simulated teleconnections during the Eemian, the last glacial inception and the preindustrial period. <i>Developments in Quaternary Sciences</i> , 2007 , 7, 517-526	0.5	
14	Sensitivity of temperature teleconnections to orbital changes in AO-GCM simulations. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	4

13	One-Dimensional CCA and SVD, and Their Relationship to Regression Maps. <i>Journal of Climate</i> , 2005 , 18, 2785-2792	4.4	55
12	Simulated Relationships between Regional Temperatures and Large-Scale Circulation: 125 kyr BP (Eemian) and the Preindustrial Period. <i>Journal of Climate</i> , 2005 , 18, 4032-4045	4.4	21
11	Atmospheric science: early peak in Antarctic oscillation index. <i>Nature</i> , 2004 , 432, 290-1	50.4	79
10	Instrument- and Tree-Ring-Based Estimates of the Antarctic Oscillation. <i>Journal of Climate</i> , 2003 , 16, 3511-3524	4.4	66
9	Statistical Precipitation Downscaling over the Northwestern United States Using Numerically Simulated Precipitation as a Predictor*. <i>Journal of Climate</i> , 2003 , 16, 799-816	4.4	231
8	Climate change scenarios at Austrian National Forest Inventory sites. <i>Climate Research</i> , 2002 , 22, 161-173.6		13
7	Validation of Mesoscale Precipitation in the NCEP Reanalysis Using a New Gridcell Dataset for the Northwestern United States. <i>Journal of Climate</i> , 2000 , 13, 1936-1950	4.4	113
6	The Effective Number of Spatial Degrees of Freedom of a Time-Varying Field. <i>Journal of Climate</i> , 1999 , 12, 1990-2009	4.4	906
5	A principal component and long-term trend analysis of daily precipitation in Switzerland. <i>International Journal of Climatology</i> , 1997 , 17, 1333-1356	3.5	97
4	Higher potential compound flood risk in Northern Europe under anthropogenic climate change		3
3	Comparing proxy and model estimates of hydroclimate variability and change over the Common Era		7
2	Cross-validation of bias-corrected climate simulations is misleading		2
1	The representation of location by regional climate models in complex terrain		4