

Martin Widmann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/213946/publications.pdf>

Version: 2024-02-01

45
papers

7,118
citations

147566

31
h-index

233125

45
g-index

61
all docs

61
docs citations

61
times ranked

8068
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid- to Late Holocene climate change: an overview. <i>Quaternary Science Reviews</i> , 2008, 27, 1791-1828.	1.4	1,389
2	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, .	9.0	1,256
3	The Effective Number of Spatial Degrees of Freedom of a Time-Varying Field. <i>Journal of Climate</i> , 1999, 12, 1990-2009.	1.2	1,128
4	Towards process-informed bias correction of climate change simulations. <i>Nature Climate Change</i> , 2017, 7, 764-773.	8.1	329
5	Statistical Precipitation Downscaling over the Northwestern United States Using Numerically Simulated Precipitation as a Predictor*. <i>Journal of Climate</i> , 2003, 16, 799-816.	1.2	255
6	Higher probability of compound flooding from precipitation and storm surge in Europe under anthropogenic climate change. <i>Science Advances</i> , 2019, 5, eaaw5531.	4.7	239
7	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.	1.9	206
8	<scp>VALUE</scp>: A framework to validate downscaling approaches for climate change studies. <i>Earth's Future</i> , 2015, 3, 1-14.	2.4	167
9	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.	1.5	164
10	Skill, Correction, and Downscaling of GCM-Simulated Precipitation. <i>Journal of Climate</i> , 2012, 25, 3970-3984.	1.2	147
11	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.	1.2	132
12	A principal component and long-term trend analysis of daily precipitation in Switzerland. <i>International Journal of Climatology</i> , 1997, 17, 1333-1356.	1.5	121
13	Increased probability of compound long-duration dry and hot events in Europe during summer (1950-2013). <i>Environmental Research Letters</i> , 2019, 14, 094006.	2.2	103
14	Using data assimilation to study extratropical Northern Hemisphere climate over the last millennium. <i>Climate of the Past</i> , 2010, 6, 627-644.	1.3	93
15	Historical SAM Variability. Part I: Century-Length Seasonal Reconstructions*. <i>Journal of Climate</i> , 2009, 22, 5319-5345.	1.2	90
16	Early peak in Antarctic oscillation index. <i>Nature</i> , 2004, 432, 290-291.	13.7	89
17	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.	0.7	81
18	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.	1.5	75

#	ARTICLE	IF	CITATIONS
19	Instrument- and Tree-Ring-Based Estimates of the Antarctic Oscillation. <i>Journal of Climate</i> , 2003, 16, 3511-3524.	1.2	71
20	One-Dimensional CCA and SVD, and Their Relationship to Regression Maps. <i>Journal of Climate</i> , 2005, 18, 2785-2792.	1.2	64
21	A combined statistical bias correction and stochastic downscaling method for precipitation. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1693-1719.	1.9	62
22	Comparison of GCM and RCM simulated precipitation following stochastic postprocessing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,040.	1.2	56
23	Transient simulations, empirical reconstructions and forcing mechanisms for the Mid-holocene hydrological climate in southern Patagonia. <i>Climate Dynamics</i> , 2007, 29, 333-355.	1.7	55
24	Stochastic Model Output Statistics for Bias Correcting and Downscaling Precipitation Including Extremes. <i>Journal of Climate</i> , 2014, 27, 6940-6959.	1.2	52
25	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.	1.5	51
26	On-line and off-line data assimilation in palaeoclimatology: a case study. <i>Climate of the Past</i> , 2015, 11, 81-93.	1.3	49
27	The VALUE perfect predictor experiment: Evaluation of temporal variability. <i>International Journal of Climatology</i> , 2019, 39, 3786-3818.	1.5	47
28	Downscaling of GCM-Simulated Precipitation Using Model Output Statistics. <i>Journal of Climate</i> , 2014, 27, 312-324.	1.2	46
29	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.	2.3	43
30	The representation of location by a regional climate model in complex terrain. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3449-3456.	1.9	37
31	Cross-validation of bias-corrected climate simulations is misleading. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4867-4873.	1.9	34
32	Validation of spatial variability in downscaling results from the VALUE perfect predictor experiment. <i>International Journal of Climatology</i> , 2019, 39, 3819-3845.	1.5	27
33	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.	1.2	22
34	Overview of data assimilation methods. <i>PAGES News</i> , 2013, 21, 72-73.	0.1	17
35	Climate change scenarios at Austrian National Forest Inventory sites. <i>Climate Research</i> , 2002, 22, 161-173.	0.4	16
36	The Time Machine framework: monitoring and prediction of biodiversity loss. <i>Trends in Ecology and Evolution</i> , 2022, 37, 138-146.	4.2	13

#	ARTICLE	IF	CITATIONS
37	Assimilating continental mean temperatures to reconstruct the climate of the late pre-industrial period. <i>Climate Dynamics</i> , 2016, 46, 3547-3566.	1.7	11
38	Transient state estimation in paleoclimatology using data assimilation. <i>PAGES News</i> , 2013, 21, 74-75.	0.1	10
39	Sensitivity of temperature teleconnections to orbital changes in AO-GCM simulations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	5
40	Delayed Holocene warming. <i>Nature Geoscience</i> , 2009, 2, 380-381.	5.4	5
41	Diving into the Past: A Paleo Dataâ€“Model Comparison Workshop on the Late Glacial and Holocene. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, ES1-ES4.	1.7	5
42	Pacific <scp>SST</scp> influence on spring precipitation in Addis Ababa, Ethiopia. <i>International Journal of Climatology</i> , 2014, 34, 1223-1235.	1.5	4
43	Influence of proxy data uncertainty on data assimilation for the past climate. <i>Climate of the Past</i> , 2016, 12, 1555-1563.	1.3	4
44	40. Chronology and climate forcing of the last four interglacials. <i>Developments in Quaternary Sciences</i> , 2007, 7, 597-614.	0.1	2
45	34. Simulated teleconnections during the Eemian, the last glacial inception and the preindustrial period. <i>Developments in Quaternary Sciences</i> , 2007, 7, 517-526.	0.1	0