Richard E Chandler

List of Publications by Year
in descending order

51 papers	3,911 citations	218677 26 h-index	197818 49 g-index
60 all docs	60 docs citations	60 times ranked	4275 citing authors

#	Article	IF	Citations
1	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. Reviews of Geophysics, 2010, 48, .	23.0	1,256
2	Rainfall modelling using Poisson-cluster processes: a review of developments. Stochastic Environmental Research and Risk Assessment, 2000, 14, 0384-0411.	4.0	207
3	Recent trends in groundwater levels in a highly seasonal hydrological system: the Ganges-Brahmaputra-Meghna Delta. Hydrology and Earth System Sciences, 2009, 13, 2373-2385.	4.9	198
4	Analysis of rainfall variability using generalized linear models: A case study from the west of Ireland. Water Resources Research, 2002, 38, 10-1-10-11.	4.2	193
5	<scp>VALUE</scp>: A framework to validate downscaling approaches for climate change studies. Earth's Future, 2015, 3, 1-14.	6.3	167
6	Spatial-temporal rainfall simulation using generalized linear models. Water Resources Research, 2005, 41, .	4.2	144
7	Inference for clustered data using the independence loglikelihood. Biometrika, 2007, 94, 167-183.	2.4	133
8	Quantifying future climate change. Nature Climate Change, 2012, 2, 403-409.	18.8	132
9	Complex long-term biodiversity change among invertebrates, bryophytes and lichens. Nature Ecology and Evolution, 2020, 4, 384-392.	7.8	130
10	Spatial-temporal rainfall modelling for flood risk estimation. Stochastic Environmental Research and Risk Assessment, 2005, 19, 403-416.	4.0	128
11	Atlantic hurricanes and NW Pacific typhoons: ENSO spatial impacts on occurrence and landfall. Geophysical Research Letters, 2000, 27, 1147-1150.	4.0	114
12	A comparison of multi-site daily rainfall downscaling techniques under Australian conditions. Journal of Hydrology, 2011, 408, 1-18.	5.4	99
13	On the use of generalized linear models for interpreting climate variability. Environmetrics, 2005, 16, 699-715.	1.4	98
14	Spatial-temporal rainfall fields: modelling and statistical aspects. Hydrology and Earth System Sciences, 2000, 4, 581-601.	4.9	78
15	An Analysis of Daily Maximum Wind Speed in Northwestern Europe Using Generalized Linear Models. Journal of Climate, 2002, 15, 2073-2088.	3.2	76
16	Statistical problems in the probabilistic prediction of climate change. Environmetrics, 2012, 23, 364-372.	1.4	61
17	Quantifying Sources of Uncertainty in Projections of Future Climate*. Journal of Climate, 2014, 27, 8793-8808.	3.2	56
18	Exploiting strength, discounting weakness: combining information from multiple climate simulators. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120388.	3.4	51

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19	Prior specification in Bayesian occupancy modelling improves analysis of species occurrence data. Ecological Indicators, 2018, 93, 333-343.	6.3	43
20	Multi-site stochastic modelling of daily rainfall in Uganda. Hydrological Sciences Journal, 2011, 56, 17-33.	2.6	39
21	Annual estimates of occupancy for bryophytes, lichens and invertebrates in the UK, 1970â€"2015. Scientific Data, 2019, 6, 259.	5.3	39
22	Changes in extreme wind speeds in NW Europe simulated by generalized linear models. Theoretical and Applied Climatology, 2006, 83, 121-137.	2.8	38
23	A framework for interpreting climate model outputs. Journal of the Royal Statistical Society Series C: Applied Statistics, 2010, 59, 279-296.	1.0	35
24	Trend estimation and change point detection in individual climatic series using flexible regression methods. Journal of Geophysical Research, 2012, 117, .	3.3	34
25	A generalized regression model of arsenic variations in the shallow groundwater of Bangladesh. Water Resources Research, 2015, 51, 685-703.	4.2	31
26	Estimating functions and the generalized method of moments. Interface Focus, 2011, 1, 871-885.	3.0	28
27	Disaggregation of spatial rainfall fields for hydrological modelling. Hydrology and Earth System Sciences, 2001, 5, 165-173.	4.9	27
28	Stochastic simulation of rainfall in the semiâ€arid Limpopo basin, Botswana. International Journal of Climatology, 2012, 32, 1113-1127.	3.5	27
29	Assessment of apparent nonstationarity in time series of annual inflow, daily precipitation, and atmospheric circulation indices: A case study from southwest Western Australia. Water Resources Research, 2010, 46, .	4.2	23
30	Analysis of aggregation and disaggregation effects for grid-based hydrological models and the development of improved precipitation disaggregation procedures for GCMs. Hydrology and Earth System Sciences, 1999, 3, 95-108.	4.9	21
31	Southern African Monthly Rainfall Variability: An Analysis Based on Generalized Linear Models. Journal of Climate, 2011, 24, 4600-4617.	3.2	21
32	A Spectral Method for Estimating Parameters in Rainfall Models. Bernoulli, 1997, 3, 301.	1.3	20
33	Simulation and downscaling models for potential evaporation. Journal of Hydrology, 2005, 302, 239-254.	5.4	20
34	Lightning Prediction for Australia Using Multivariate Analyses of Large-Scale Atmospheric Variables. Journal of Applied Meteorology and Climatology, 2018, 57, 525-534.	1.5	18
35	Rainfall-derived growing season characteristics for agricultural impact assessments in South Africa. Theoretical and Applied Climatology, 2014, 115, 411-426.	2.8	17
36	Classification of Australian Thunderstorms Using Multivariate Analyses of Large-Scale Atmospheric Variables. Journal of Applied Meteorology and Climatology, 2017, 56, 1921-1937.	1.5	11

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37	Building trust in climate science: data products for the 21st century. Environmetrics, 2012, 23, 373-381.	1.4	10
38	Estimating trends and seasonality in Australian monthly lightning flash counts. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3973-3983.	3.3	10
39	New approaches to postprocessing of multiâ€model ensemble forecasts. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3479-3498.	2.7	10
40	Empirical fragility curves: The effect of uncertainty in ground motion intensity. Soil Dynamics and Earthquake Engineering, 2020, 129, 105908.	3.8	9
41	Bayesian Image Analysis and the Disaggregation of Rainfall. Journal of Atmospheric and Oceanic Technology, 2000, 17, 641-650.	1.3	8
42	BEA: An efficient Bayesian emulation-based approach for probabilistic seismic response. Structural Safety, 2018, 74, 32-48.	5.3	8
43	Multisite, multivariate weather generation based on generalised linear models. Environmental Modelling and Software, 2020, 134, 104867.	4.5	7
44	Quality control for daily observational rainfall series in the UK. Water and Environment Journal, 2006, 20, 060606025927007-???.	2.2	6
45	An analysis of midâ€summer rainfall occurrence in eastern China and its relationship with largeâ€scale warming using generalized linear models. International Journal of Climatology, 2010, 30, 1826-1834.	3.5	4
46	A Nonparametric Approach to the Removal of Documented Inhomogeneities in Climate Time Series. Journal of Applied Meteorology and Climatology, 2013, 52, 1139-1146.	1.5	4
47	Classical Approaches for Statistical Inference in Model Calibration with Uncertainty. , 2014, , 60-67.		3
48	Uncertainty in Rainfall Inputs. , 2014, , 101-152.		2
49	Inference with the Whittle Likelihood: A Tractable Approach Using Estimating Functions. Journal of Time Series Analysis, 2017, 38, 204-224.	1.2	2
50	Developing a quick guide on presenting data and uncertainty. Weather, 2017, 72, 266-269.	0.7	2
51	The international surface temperature initiative. , 2013, , .		1