

Chris Kilsby

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

4,144
citations

126907

33
h-index

114465

63
g-index

68
all docs

68
docs citations

68
times ranked

4302
citing authors

#	ARTICLE	IF	CITATIONS
1	A daily weather generator for use in climate change studies. <i>Environmental Modelling and Software</i> , 2007, 22, 1705-1719.	4.5	376
2	A regional frequency analysis of United Kingdom extreme rainfall from 1961 to 2000. <i>International Journal of Climatology</i> , 2003, 23, 1313-1334.	3.5	293
3	Future heat-waves, droughts and floods in 571 European cities. <i>Environmental Research Letters</i> , 2018, 13, 034009.	5.2	242
4	RainSim: A spatial-temporal stochastic rainfall modelling system. <i>Environmental Modelling and Software</i> , 2008, 23, 1356-1369.	4.5	192
5	Using regional climate model data to simulate historical and future river flows in northwest England. <i>Climatic Change</i> , 2007, 80, 337-367.	3.6	178
6	Modeling the impacts of climatic change and variability on the reliability, resilience, and vulnerability of a water resource system. <i>Water Resources Research</i> , 2003, 39, .	4.2	161
7	New estimates of future changes in extreme rainfall across the UK using regional climate model integrations. 1. Assessment of control climate. <i>Journal of Hydrology</i> , 2005, 300, 212-233.	5.4	160
8	New estimates of future changes in extreme rainfall across the UK using regional climate model integrations. 2. Future estimates and use in impact studies. <i>Journal of Hydrology</i> , 2005, 300, 234-251.	5.4	147
9	Using satellite altimetry data to augment flow estimation techniques on the Mekong River. <i>Hydrological Processes</i> , 2010, 24, 3811-3825.	2.6	129
10	A weather-type conditioned multi-site stochastic rainfall model for the generation of scenarios of climatic variability and change. <i>Journal of Hydrology</i> , 2005, 308, 50-66.	5.4	117
11	Downscaling transient climate change using a Neyman-Scott Rectangular Pulses stochastic rainfall model. <i>Journal of Hydrology</i> , 2010, 381, 18-32.	5.4	100
12	Quantifying and Mitigating Wind-Induced Undercatch in Rainfall Measurements. <i>Water Resources Research</i> , 2018, 54, 3863-3875.	4.2	98
13	Implications of changes in seasonal and annual extreme rainfall. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	96
14	Predicting rainfall statistics in England and Wales using atmospheric circulation variables. <i>International Journal of Climatology</i> , 1998, 18, 523-539.	3.5	93
15	A space-time Neyman-Scott model of rainfall: Empirical analysis of extremes. <i>Water Resources Research</i> , 2002, 38, 6-1-6-14.	4.2	89
16	Modelling the impacts of projected future climate change on water resources in north-west England. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1115-1126.	4.9	88
17	A weather-type approach to analysing water resource drought in the Yorkshire region from 1881 to 1998. <i>Journal of Hydrology</i> , 2002, 262, 177-192.	5.4	81
18	Airborne observations of the physical and chemical characteristics of the Kuwait oil smoke plume. <i>Nature</i> , 1991, 353, 617-621.	27.8	80

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19	Precipitation and the North Atlantic Oscillation: a study of climatic variability in northern England. <i>International Journal of Climatology</i> , 2002, 22, 843-866.	3.5	77
20	Using probabilistic climate change information from a multimodel ensemble for water resources assessment. <i>Water Resources Research</i> , 2009, 45, .	4.2	76
21	An assessment of changes in seasonal and annual extreme rainfall in the UK between 1961 and 2009. <i>International Journal of Climatology</i> , 2013, 33, 1178-1194.	3.5	73
22	The blue-green path to urban flood resilience. <i>Blue-Green Systems</i> , 2020, 2, 28-45.	2.0	70
23	Towards risk-based water resources planning in England and Wales under a changing climate. <i>Water and Environment Journal</i> , 2012, 26, 118-129.	2.2	65
24	Hydrological impacts of climate change on the Tejo and Guadiana Rivers. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1175-1189.	4.9	62
25	Application of a stochastic weather generator to assess climate change impacts in a semi-arid climate: The Upper Indus Basin. <i>Journal of Hydrology</i> , 2014, 517, 1019-1034.	5.4	60
26	A stochastic rainfall model for the assessment of regional water resource systems under changed climatic condition. <i>Hydrology and Earth System Sciences</i> , 2000, 4, 263-281.	4.9	57
27	Integrated Approach to Assess the Resilience of Future Electricity Infrastructure Networks to Climate Hazards. <i>IEEE Systems Journal</i> , 2018, 12, 3169-3180.	4.6	57
28	Objective classification of extreme rainfall regions for the <scp>UK</scp> and updated estimates of trends in regional extreme rainfall. <i>International Journal of Climatology</i> , 2014, 34, 751-765.	3.5	52
29	A stochastic model for the spatial-temporal simulation of nonhomogeneous rainfall occurrence and amounts. <i>Water Resources Research</i> , 2010, 46, .	4.2	49
30	Probabilistic spatial risk assessment of heat impacts and adaptations for London. <i>Climatic Change</i> , 2014, 124, 105-117.	3.6	49
31	Implications of Using Global Digital Elevation Models for Flood Risk Analysis in Cities. <i>Water Resources Research</i> , 2020, 56, e2020WR028241.	4.2	41
32	Assessment of Runoff Sensitivity in the Upper Indus Basin to Interannual Climate Variability and Potential Change Using MODIS Satellite Data Products. <i>Mountain Research and Development</i> , 2012, 32, 16.	1.0	36
33	Flood modelling for cities using Cloud computing. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , 2013, 2, .	3.9	36
34	Urban Flood Simulation Using Synthetic Storm Drain Networks. <i>Water (Switzerland)</i> , 2017, 9, 925.	2.7	32
35	Pluvial Flooding in European Cities – A Continental Approach to Urban Flood Modelling. <i>Water (Switzerland)</i> , 2017, 9, 296.	2.7	32
36	Fine-scale regional climate patterns in the Guianas, tropical South America, based on observations and reanalysis data. <i>International Journal of Climatology</i> , 2012, 32, 1665-1689.	3.5	31

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37	A new precipitation and drought climatology based on weather patterns. <i>International Journal of Climatology</i> , 2018, 38, 630-648.	3.5	31
38	Assessing the threat of future megadrought in Iberia. <i>International Journal of Climatology</i> , 2017, 37, 5024-5034.	3.5	29
39	Water-Vapour Continuum Absorption In the Tropics: Aircraft Measurements and Model Comparisons. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992, 118, 715-748.	2.7	28
40	Opportunities from Remote Sensing for Supporting Water Resources Management in Village/Valley Scale Catchments in the Upper Indus Basin. <i>Water Resources Management</i> , 2012, 26, 845-871.	3.9	28
41	Understanding Persistence to Avoid Underestimation of Collective Flood Risk. <i>Water (Switzerland)</i> , 2016, 8, 152.	2.7	27
42	Implications of climate change for thermal discomfort on underground railways. <i>Transportation Research, Part D: Transport and Environment</i> , 2014, 30, 1-9.	6.8	26
43	Dry getting drier – The future of transnational river basins in Iberia. <i>Journal of Hydrology: Regional Studies</i> , 2017, 12, 238-252.	2.4	25
44	Development of a system for automated setup of a physically-based, spatially-distributed hydrological model for catchments in Great Britain. <i>Environmental Modelling and Software</i> , 2018, 108, 102-110.	4.5	24
45	Perturbing a Weather Generator using change factors derived from Regional Climate Model simulations. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 503-511.	1.3	22
46	Spatial analysis of the reliability of transport networks subject to rainfall-induced landslides. <i>Hydrological Processes</i> , 2008, 22, 3349-3360.	2.6	21
47	A Detailed Cloud Fraction Climatology of the Upper Indus Basin and Its Implications for Near-Surface Air Temperature*. <i>Journal of Climate</i> , 2015, 28, 3537-3556.	3.2	21
48	Improving bank erosion modelling at catchment scale by incorporating temporal and spatial variability. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 124-133.	2.5	20
49	Improved hydrological modelling of urban catchments using runoff coefficients. <i>Journal of Hydrology</i> , 2021, 594, 125884.	5.4	20
50	Improving sub-seasonal forecast skill of meteorological drought: a weather pattern approach. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 107-124.	3.6	18
51	Adaptation of water resource systems to an uncertain future. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1869-1884.	4.9	17
52	A Probabilistic Analysis of Surface Water Flood Risk in London. <i>Risk Analysis</i> , 2018, 38, 1169-1182.	2.7	17
53	Simulating multimodal seasonality in extreme daily precipitation occurrence. <i>Journal of Hydrology</i> , 2016, 537, 117-129.	5.4	15
54	Downscaling climate change of water availability, sediment yield and extreme events: Application to a Mediterranean climate basin. <i>International Journal of Climatology</i> , 2019, 39, 2947-2963.	3.5	14

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55	Rainfall in Iberian transnational basins: a drier future for the Douro, Tagus and Guadiana?. Climatic Change, 2016, 135, 467-480.	3.6	12
56	UP Modelling System for large scale hydrology: deriving large-scale physically-based parameters for the Arkansas-Red River basin. Hydrology and Earth System Sciences, 1999, 3, 125-136.	4.9	9
57	Weekly to multi-month persistence in sets of daily weather patterns over Europe and the North Atlantic Ocean. International Journal of Climatology, 2019, 39, 2041-2056.	3.5	9
58	Stormwater Detention Ponds in Urban Catchments – Analysis and Validation of Performance of Ponds in the Ouseburn Catchment, Newcastle upon Tyne, UK. Water (Switzerland), 2021, 13, 2521.	2.7	6
59	Partial afforestation has uncertain effect on flood frequency and peak discharge at large catchment scales (100–1000 km ²), south-central Chile. Hydrological Processes, 2022, 36, .	2.6	5
60	Physically-based modelling, uncertainty, and pragmatism – Comment on: ‘Système Hydrologique Europe�n (SHE): review and perspectives after 30 years development in distributed physically-based hydrological modelling’ by Jens Christian Refsgaard, B�rge Storm and Thomas Clausen. Hydrology Research, 2012, 43, 945-947.	2.7	4
61	Downscaling climate change of mean climatology and extremes of precipitation and temperature: Application to a Mediterranean climate basin. International Journal of Climatology, 2019, 39, 4985-5005.	3.5	4
62	Incorporating topographic variability into a simple regional snowmelt model. Hydrological Processes, 2004, 18, 3371-3390.	2.6	3
63	Briefing: Wrapt – software for analysing UKCP09 weather generator output. Water Management, 2014, 167, 318-321.	1.2	3
64	Climate models' value. New Scientist, 2008, 201, 16.	0.0	2
65	Role of hydrology in managing consequences of a changing global environment. Hydrology Research, 2012, 43, 548-550.	2.7	2
66	Analysing changes in short-duration extreme rainfall events. Water Management, 2016, 169, 201-211.	1.2	1
67	Coupled surface/sub-surface modelling to investigate the potential for blue-green infrastructure to deliver urban flood risk reduction benefits. , 2020, , 37-50.		1