

David C H Wallom

List of Publications by Citations

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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.

60 papers	1,291 citations	17 h-index	35 g-index
97 ext. papers	1,671 ext. citations	6 avg, IF	4.24 L-index

#	Paper	IF	Citations
60	Human influence on climate in the 2014 southern England winter floods and their impacts. <i>Nature Climate Change</i> , 2016 , 6, 627-634	21.4	189
59	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. <i>Geoscientific Model Development</i> , 2017 , 10, 571-583	6.3	162
58	Attributing human mortality during extreme heat waves to anthropogenic climate change. <i>Environmental Research Letters</i> , 2016 , 11, 074006	6.2	158
57	The ocean sampling day consortium. <i>GigaScience</i> , 2015 , 4, 27	7.6	126
56	Impacts of Raw Data Temporal Resolution Using Selected Clustering Methods on Residential Electricity Load Profiles. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3217-3224	7	62
55	Attribution of the Australian bushfire risk to anthropogenic climate change. <i>Natural Hazards and Earth System Sciences</i> , 2021 , 21, 941-960	3.9	58
54	weather@home 2: validation of an improved global/regional climate modelling system. <i>Geoscientific Model Development</i> , 2017 , 10, 1849-1872	6.3	56
53	A large set of potential past, present and future hydro-meteorological time series for the UK. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 611-634	5.5	42
52	Clustering disaggregated load profiles using a Dirichlet process mixture model. <i>Energy Conversion and Management</i> , 2015 , 92, 507-516	10.6	40
51	Interoperation of world-wide production e-Science infrastructures. <i>Concurrency Computation Practice and Experience</i> , 2009 , 21, 961-990	1.4	37
50	Seasonal spatial patterns of projected anthropogenic warming in complex terrain: a modeling study of the western US. <i>Climate Dynamics</i> , 2017 , 48, 2191-2213	4.2	32
49	Assessing mid-latitude dynamics in extreme event attribution systems. <i>Climate Dynamics</i> , 2017 , 48, 3889-3901	4.2	25
48	Cloud computing in e-Science: research challenges and opportunities. <i>Journal of Supercomputing</i> , 2014 , 70, 408-464	2.5	24
47	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 1409-1429	5.5	23
46	An Overlapping Zone-Based State Estimation Method for Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2126-2133	10.7	22
45	Attribution of the Australian bushfire risk to anthropogenic climate change 2020 ,		21
44	myTrustedCloud: Trusted Cloud Infrastructure for Security-critical Computation and Data Managment 2011 ,		21

43	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. <i>Environmental Research Letters</i> , 2018 , 13, 114004	6.2	16
42	The weather@home regional climate modelling project for Australia and New Zealand. <i>Geoscientific Model Development</i> , 2016 , 9, 3161-3176	6.3	12
41	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017-like Heat Waves over Central Eastern China. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S91-S95	6.1	11
40	Climate model forecast biases assessed with a perturbed physics ensemble. <i>Climate Dynamics</i> , 2017 , 49, 1729-1746	4.2	10
39	Predicting winning and losing businesses when changing electricity tariffs. <i>Applied Energy</i> , 2014 , 133, 298-307	10.7	10
38	Reducing climate model biases by exploring parameter space with large ensembles of climate model simulations and statistical emulation. <i>Geoscientific Model Development</i> , 2019 , 12, 3017-3043	6.3	9
37	Power-use profile analysis of non-domestic consumers for electricity tariff switching. <i>Energy Efficiency</i> , 2016 , 9, 825-841	3	9
36	Enabling BOINC in infrastructure as a service cloud system. <i>Geoscientific Model Development</i> , 2017 , 10, 811-826	6.3	9
35	Recent developments towards novel high performance computing and communications solutions for smart distribution network operation 2011 ,		8
34	Shibboleth Access for Resources on the National Grid Service (SARoNGS) 2009 ,		8
33	A pan-South-America assessment of avoided exposure to dangerous extreme precipitation by limiting to 1.5 °C warming. <i>Environmental Research Letters</i> , 2020 , 15, 054005	6.2	8
32	Parametric Sensitivity of Vegetation Dynamics in the TRIFFID Model and the Associated Uncertainty in Projected Climate Change Impacts on Western U.S. Forests. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2787-2813	7.1	6
31	Anthropogenic Contribution to the 2017 Earliest Summer Onset in South Korea. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S73-S77	6.1	5
30	A comparison of model ensembles for attributing 2012 West African rainfall. <i>Environmental Research Letters</i> , 2017 , 12, 014019	6.2	5
29	ShibGrid: Shibboleth Access for the UK National Grid Service 2006 ,		5
28	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091990	4.9	5
27	Influence of the Ocean and Greenhouse Gases on Severe Drought Likelihood in the Central United States in 2012. <i>Journal of Climate</i> , 2017 , 30, 1789-1806	4.4	4
26	Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI): Background and Experimental Design 2016 ,		4

25	A hardware and software computational platform for the HiPerDNO (high performance distribution network operation) project 2011 ,		4
24	A data-driven approach for electricity load profile prediction of new supermarkets. <i>Energy Procedia</i> , 2019 , 161, 242-250	2.3	3
23	On High Precipitation in Mozambique, Zimbabwe and Zambia in February 2018. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S47-S52	6.1	3
22	Towards an understanding of dynamic energy pricing and tariffs 2012 ,		3
21	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives		3
20	Ensemble of European regional climate simulations for the winter of 2013 and 2014 from HadAM3P-RM3P. <i>Scientific Data</i> , 2018 , 5, 180057	8.2	3
19	Cloud Computing for Climate Modelling: Evaluation, Challenges and Benefits. <i>Computers</i> , 2020 , 9, 52	1.9	2
18	myTrustedCloud 2012 ,		2
17	Drivers behind the summer 2010 wave train leading to Russian heatwave and Pakistan flooding. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	2
16	A large set of potential past, present and future hydro-meteorological time series for the UK		2
15	OpenIFS@home version 1: a citizen science project for ensemble weather and climate forecasting. <i>Geoscientific Model Development</i> , 2021 , 14, 3473-3486	6.3	2
14	Utilising Amazon web services to provide an on demand urgent computing facility for climateprediction.net 2016 ,		2
13	Classification and characterization of intra-day load curves of PV and non-PV households using interpretable feature extraction and feature-based clustering. <i>Sustainable Cities and Society</i> , 2021 , 75, 103380	10.1	2
12	On the complexities of utilizing large-scale lightpath-connected distributed cyberinfrastructure. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e3853	1.4	1
11	Finding Ocean States That Are Consistent with Observations from a Perturbed Physics Parameter Ensemble. <i>Journal of Climate</i> , 2018 , 31, 4639-4656	4.4	1
10	A multi-agent model for assessing electricity tariffs 2014 ,		1
9	The user support programme and the training infrastructure of the EGI Federated Cloud 2015 ,		1
8	Federating Infrastructure as a Service Cloud Computing Systems to Create a Uniform E-infrastructure for Research 2015 ,		1

7	Flexible services for the support of research. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120067	3	1
6	2009 ,		1
5	Predicting electricity demand profiles of new supermarkets using machine learning. <i>Energy and Buildings</i> , 2021 , 234, 110635	7	1
4	Anthropogenic climate change contribution to wildfire-prone weather conditions in the Cerrado and Arc of deforestation. <i>Environmental Research Letters</i> , 2021 , 16, 094051	6.2	1
3	A 1-Day Extreme Rainfall Event in Tasmania: Process Evaluation and Long Tail Attribution. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S123-S128	6.1	0
2	Resilient by design: Preventing wildfires and blackouts with microgrids. <i>Applied Energy</i> , 2022 , 313, 118793	10.7	0
1	Generating samples of extreme winters to support climate adaptation. <i>Weather and Climate Extremes</i> , 2022 , 36, 100419	6	0