David C H Wallom

List of Publications by Year in Descending Order

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	Resilient by design: Preventing wildfires and blackouts with microgrids. *Applied Energy*, **2022**, 313, 118793	10.7	0
59	Generating samples of extreme winters to support climate adaptation. *Weather and Climate Extremes*, **2022**, 36, 100419	6	0
58	Drivers behind the summer 2010 wave train leading to Russian heatwave and Pakistan flooding. *Npj Climate and Atmospheric Science*, **2021**, 4,	8	2
57	Attribution of the Australian bushfire risk to anthropogenic climate change. *Natural Hazards and Earth System Sciences*, **2021**, 21, 941-960	3.9	58
56	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. *Geophysical Research Letters*, **2021**, 48, e2020GL091990	4.9	5
55	OpenIFS@home version 1: a citizen science project for ensemble weather and climate forecasting. *Geoscientific Model Development*, **2021**, 14, 3473-3486	6.3	2
54	Predicting electricity demand profiles of new supermarkets using machine learning. *Energy and Buildings*, **2021**, 234, 110635	7	1
53	Anthropogenic climate change contribution to wildfire-prone weather conditions in the Cerrado and Arc of deforestation. *Environmental Research Letters*, **2021**, 16, 094051	6.2	1
52	Classification and characterization of intra-day load curves of PV and non-PV households using interpretable feature extraction and feature-based clustering. *Sustainable Cities and Society*, **2021**, 75, 103380	10.1	2
51	Attribution of the Australian bushfire risk to anthropogenic climate change **2020**,		21
50	On High Precipitation in Mozambique, Zimbabwe and Zambia in February 2018. *Bulletin of the American Meteorological Society*, **2020**, 101, S47-S52	6.1	3
49	Cloud Computing for Climate Modelling: Evaluation, Challenges and Benefits. *Computers*, **2020**, 9, 52	1.9	2
48	A 1-Day Extreme Rainfall Event in Tasmania: Process Evaluation and Long Tail Attribution. *Bulletin of the American Meteorological Society*, **2020**, 101, S123-S128	6.1	0
47	A pan-South-America assessment of avoided exposure to dangerous extreme precipitation by limiting to 1.5 °C warming. *Environmental Research Letters*, **2020**, 15, 054005	6.2	8
46	Parametric Sensitivity of Vegetation Dynamics in the TRIFFID Model and the Associated Uncertainty in Projected Climate Change Impacts on Western U.S. Forests. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 2787-2813	7.1	6
45	Reducing climate model biases by exploring parameter space with large ensembles of climate model simulations and statistical emulation. *Geoscientific Model Development*, **2019**, 12, 3017-3043	6.3	9
44	A data-driven approach for electricity load profile prediction of new supermarkets. *Energy Procedia*, **2019**, 161, 242-250	2.3	3

43	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives. *Hydrology and Earth System Sciences*, **2019**, 23, 1409-1429	5.5	23
42	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017–like Heat Waves over Central Eastern China. *Bulletin of the American Meteorological Society*, **2019**, 100, S91-S95	6.1	11
41	Anthropogenic Contribution to the 2017 Earliest Summer Onset in South Korea. *Bulletin of the American Meteorological Society*, **2019**, 100, S73-S77	6.1	5
40	Finding Ocean States That Are Consistent with Observations from a Perturbed Physics Parameter Ensemble. *Journal of Climate*, **2018**, 31, 4639-4656	4.4	1
39	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. *Environmental Research Letters*, **2018**, 13, 114004	6.2	16
38	Ensemble of European regional climate simulations for the winter of 2013 and 2014 from HadAM3P-RM3P. *Scientific Data*, **2018**, 5, 180057	8.2	3
37	A large set of potential past, present and future hydro-meteorological time series for the UK. *Hydrology and Earth System Sciences*, **2018**, 22, 611-634	5.5	42
36	On the complexities of utilizing large-scale lightpath-connected distributed cyberinfrastructure. *Concurrency Computation Practice and Experience*, **2017**, 29, e3853	1.4	1
35	Seasonal spatial patterns of projected anthropogenic warming in complex terrain: a modeling study of the western US. *Climate Dynamics*, **2017**, 48, 2191-2213	4.2	32
34	Influence of the Ocean and Greenhouse Gases on Severe Drought Likelihood in the Central United States in 2012. *Journal of Climate*, **2017**, 30, 1789-1806	4.4	4
33	Assessing mid-latitude dynamics in extreme event attribution systems. *Climate Dynamics*, **2017**, 48, 3889-3901	4.2	25
32	weather@home 2: validation of an improved global–regional climate modelling system. *Geoscientific Model Development*, **2017**, 10, 1849-1872	6.3	56
31	Climate model forecast biases assessed with a perturbed physics ensemble. *Climate Dynamics*, **2017**, 49, 1729-1746	4.2	10
30	A comparison of model ensembles for attributing 2012 West African rainfall. *Environmental Research Letters*, **2017**, 12, 014019	6.2	5
29	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. *Geoscientific Model Development*, **2017**, 10, 571-583	6.3	162
28	Enabling BOINC in infrastructure as a service cloud system. *Geoscientific Model Development*, **2017**, 10, 811-826	6.3	9
27	Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI): Background and Experimental Design **2016**,		4
26	Attributing human mortality during extreme heat waves to anthropogenic climate change. *Environmental Research Letters*, **2016**, 11, 074006	6.2	158

25	Power-use profile analysis of non-domestic consumers for electricity tariff switching. *Energy Efficiency*, **2016**, 9, 825-841	3	9
24	Human influence on climate in the 2014 southern England winter floods and their impacts. *Nature Climate Change*, **2016**, 6, 627-634	21.4	189
23	The weather@home regional climate modelling project for Australia and New Zealand. *Geoscientific Model Development*, **2016**, 9, 3161-3176	6.3	12
22	Utilising Amazon web services to provide an on demand urgent computing facility for climateprediction.net **2016**,		2
21	An Overlapping Zone-Based State Estimation Method for Distribution Systems. *IEEE Transactions on Smart Grid*, **2015**, 6, 2126-2133	10.7	22
20	Clustering disaggregated load profiles using a Dirichlet process mixture model. *Energy Conversion and Management*, **2015**, 92, 507-516	10.6	40
19	The ocean sampling day consortium. *GigaScience*, **2015**, 4, 27	7.6	126
18	Impacts of Raw Data Temporal Resolution Using Selected Clustering Methods on Residential Electricity Load Profiles. *IEEE Transactions on Power Systems*, **2015**, 30, 3217-3224	7	62
17	The user support programme and the training infrastructure of the EGI Federated Cloud **2015**,		1
16	Federating Infrastructure as a Service Cloud Computing Systems to Create a Uniform E-infrastructure for Research **2015**,		1
15	Cloud computing in e-Science: research challenges and opportunities. *Journal of Supercomputing*, **2014**, 70, 408-464	2.5	24
14	A multi-agent model for assessing electricity tariffs **2014**,		1
13	Predicting winning and losing businesses when changing electricity tariffs. *Applied Energy*, **2014**, 133, 298-307	10.7	10
12	Flexible services for the support of research. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2013**, 371, 20120067	3	1
11	Towards an understanding of dynamic energy pricing and tariffs **2012**,		3
10	myTrustedCloud **2012**,		2
9	myTrustedCloud: Trusted Cloud Infrastructure for Security-critical Computation and Data Managment **2011**,		21
8	Recent developments towards novel high performance computing and communications solutions for smart distribution network operation **2011**,		8

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7	A hardware and software computational platform for the HiPerDNO (high performance distribution network operation) project **2011**,		4
6	Shibboleth Access for Resources on the National Grid Service (SARoNGS) **2009**,		8
5	Interoperation of world-wide production e-Science infrastructures. *Concurrency Computation Practice and Experience*, **2009**, 21, 961-990	1.4	37
4	**2009**,		1
3	ShibGrid: Shibboleth Access for the UK National Grid Service **2006**,		5
2	A large set of potential past, present and future hydro-meteorological time series for the UK		2
1	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives		3