Jamie Hannaford

List of Publications by Year in descending order

76 papers	6,956 citations	71102 41 h-index	85541 71 g-index
94 all docs	94 docs citations	94 times ranked	6613 citing authors

#	Article	IF	Citations
1	Changing climate both increases and decreases European river floods. Nature, 2019, 573, 108-111.	27.8	639
2	Changing climate shifts timing of European floods. Science, 2017, 357, 588-590.	12.6	584
3	Drought in the Anthropocene. Nature Geoscience, 2016, 9, 89-91.	12.9	537
4	Streamflow trends in Europe: evidence from a dataset of near-natural catchments. Hydrology and Earth System Sciences, 2010, 14, 2367-2382.	4.9	370
5	From meteorological to hydrological drought using standardised indicators. Hydrology and Earth System Sciences, 2016, 20, 2483-2505.	4.9	323
6	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. Hydrology and Earth System Sciences, 2016, 20, 3631-3650.	4.9	289
7	Climate change and water in the UK â€“ past changes and future prospects. Progress in Physical Geography, 2015, 39, 6-28.	3.2	178
8	Examining the largeâ€scale spatial coherence of European drought using regional indicators of precipitation and streamflow deficit. Hydrological Processes, 2011, 25, 1146-1162.	2.6	176
9	Highâ€flow and flood trends in a network of undisturbed catchments in the UK. International Journal of Climatology, 2008, 28, 1325-1338.	3.5	170
10	Drought indicators revisited: the need for a wider consideration of environment and society. Wiley Interdisciplinary Reviews: Water, 2016, 3, 516-536.	6.5	161
11	Hydrology needed to manage droughts: the 2015 European case. Hydrological Processes, 2016, 30, 3097-3104.	2.6	152
12	Potential influences on the United Kingdom's floods of winter 2013/14. Nature Climate Change, 2014, 4, 769-777.	18.8	149
13	Filling the white space on maps of European runoff trends: estimates from a multi-model ensemble. Hydrology and Earth System Sciences, 2012, 16, 2035-2047.	4.9	134
14	The EuropeanÂ2015 drought from a hydrological perspective. Hydrology and Earth System Sciences, 2017, 21, 3001-3024.	4.9	132
15	On the robustness of changes in extreme precipitation over Europe from two high resolution climate change simulations. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 65-81.	2.7	127
16	Climate-driven variability in the occurrence of major floods across North America and Europe. Journal of Hydrology, 2017, 552, 704-717.	5.4	122
17	The influence of decadal-scale variability on trends in long European streamflow records. Hydrology and Earth System Sciences, 2013, 17, 2717-2733.	4.9	113
18	An assessment of trends in UK runoff and low flows using a network of undisturbed catchments. International Journal of Climatology, 2006, 26, 1237-1253.	3.5	109

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19	How well do meteorological indicators represent agricultural and forest drought across Europe?. Environmental Research Letters, 2018, 13, 034042.	5.2	107
20	Trends in seasonal river flow regimes in the UK. Journal of Hydrology, 2012, 475, 158-174.	5.4	105
21	Detecting changing river temperatures in England and Wales. Hydrological Processes, 2015, 29, 752-766.	2.6	94
22	A quantitative analysis to objectively appraise drought indicators and model drought impacts. Hydrology and Earth System Sciences, 2016, 20, 2589-2609.	4.9	94
23	Developing environmental standards for abstractions from UK rivers to implement the EU Water Framework Directive / DÃ©veloppement de standards environnementaux sur les prÃ©lÃ¨vements d'eau en riviÃ¨re au Royaume Uni pour la mise en Å“uvre de la directive cadre sur l'eau de l'Union EuropÃ©enne. Hydrological Sciences Journal, 2008, 53, 1105-1120.	2.6	91
24	Climate-driven changes in UK river flows. Progress in Physical Geography, 2015, 39, 29-48.	3.2	91
25	CAMELS-GB: hydrometeorological time series and landscape attributes for 671 catchments in Great Britain. Earth System Science Data, 2020, 12, 2459-2483.	9.9	87
26	How Well Do Large-Scale Models Reproduce Regional Hydrological Extremes in Europe?. Journal of Hydrometeorology, 2011, 12, 1181-1204.	1.9	83
27	Statistical distributions for monthly aggregations of precipitation and streamflow in drought indicator applications. Water Resources Research, 2017, 53, 999-1018.	4.2	81
28	Complex influences of meteorological drought time-scales on hydrological droughts in natural basins of the contiguous Unites States. Journal of Hydrology, 2019, 568, 611-625.	5.4	78
29	Response of crop yield to different time-scales of drought in the United States: Spatio-temporal patterns and climatic and environmental drivers. Agricultural and Forest Meteorology, 2019, 264, 40-55.	4.8	77
30	Multi-year droughts in Europe: analysis of development and causes. Hydrology Research, 2012, 43, 689-706.	2.7	67
31	Reference hydrologic networks I. The status and potential future directions of national reference hydrologic networks for detecting trends. Hydrological Sciences Journal, 2012, 57, 1562-1579.	2.6	67
32	Multi-annual droughts in the English Lowlands: a review of their characteristics and climate drivers in the winter half-year. Hydrology and Earth System Sciences, 2015, 19, 2353-2375.	4.9	66
33	Human influences on streamflow drought characteristics in England and Wales. Hydrology and Earth System Sciences, 2018, 22, 1051-1064.	4.9	65
34	Testing the resilience of water supply systems to long droughts. Journal of Hydrology, 2012, 414-415, 255-267.	5.4	62
35	Long-range forecasts of UK winter hydrology. Environmental Research Letters, 2015, 10, 064006.	5.2	60
36	Designation and trend analysis of the updated UK Benchmark Network of river flow stations: the UKBN2 dataset. Hydrology Research, 2018, 49, 552-567.	2.7	59

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37	The winter storms of 2013/2014 in the <scp>UK</scp>: hydrological responses and impacts. Weather, 2015, 70, 55-61.	0.7	55
38	Climate, Irrigation, and Land Cover Change Explain Streamflow Trends in Countries Bordering the Northeast Atlantic. Geophysical Research Letters, 2019, 46, 10821-10833.	4.0	55
39	Environmental flows from dams: the water framework directive. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2009, 162, 13-22.	0.7	53
40	Developing drought impact functions for drought risk management. Natural Hazards and Earth System Sciences, 2017, 17, 1947-1960.	3.6	51
41	An appraisal of the performance of data-infilling methods for application to daily mean river flow records in the UK. Hydrology Research, 2012, 43, 618-636.	2.7	45
42	Which catchment characteristics control the temporal dependence structure of daily river flows?. Hydrological Processes, 2015, 29, 1353-1369.	2.6	45
43	Hydrological Outlook UK: an operational streamflow and groundwater level forecasting system at monthly to seasonal time scales. Hydrological Sciences Journal, 2017, 62, 2753-2768.	2.6	45
44	Reference hydrologic networks II. Using reference hydrologic networks to assess climate-driven changes in streamflow. Hydrological Sciences Journal, 2012, 57, 1580-1593.	2.6	43
45	Longâ€term variability and trends in meteorological droughts in Western Europe (1851â€“2018). International Journal of Climatology, 2021, 41, E690.	3.5	43
46	Historic hydrological droughts 1891â€“2015: systematic characterisation for a diverse set of catchments across theÂUK. Hydrology and Earth System Sciences, 2019, 23, 4583-4602.	4.9	40
47	The effective management of national hydrometric data: experiences from the United Kingdom. Hydrological Sciences Journal, 2013, 58, 1383-1399.	2.6	39
48	A multi-objective ensemble approach to hydrological modelling in the UK: an application to historic drought reconstruction. Hydrology and Earth System Sciences, 2019, 23, 3247-3268.	4.9	36
49	Ensuring water resource security in China; the need for advances in evidence-based policy to support sustainable management. Environmental Science and Policy, 2017, 75, 65-69.	4.9	36
50	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. Proceedings of the International Association of Hydrological Sciences, 0, 370, 89-95.	1.0	32
51	A hydrological assessment of the November 2009 floods in Cumbria, UK. Hydrology Research, 2013, 44, 180-197.	2.7	30
52	The winter 2015/2016 floods in the <scp>UK</scp>: a hydrological appraisal. Weather, 2016, 71, 324-333.	0.7	29
53	Effectiveness of drought indices in identifying impacts on major crops across the USA. Climate Research, 2018, 75, 221-240.	1.1	28
54	The 2018/2019 drought in the <scp>UK</scp>: a hydrological appraisal. Weather, 2021, 76, 248-253.	0.7	24

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55	Improved confidence in regional climate model simulations of precipitation evaluated using drought statistics from the ENSEMBLES models. Climate Dynamics, 2013, 40, 155-173.	3.8	22
56	Drought risk assessment of spring maize based on APSIM crop model in Liaoning province, China. International Journal of Disaster Risk Reduction, 2020, 45, 101483.	3.9	20
57	An updated national-scale assessment of trends in UK peak river flow data: how robust are observed increases in flooding?. Hydrology Research, 2021, 52, 699-718.	2.7	20
58	The challenges of hydrological drought definition, quantification and communication: an interdisciplinary perspective. Proceedings of the International Association of Hydrological Sciences, 0, 383, 291-295.	1.0	20
59	The forgotten drought of 1765â€“1768: Reconstructing and reâ€evaluating historical droughts in the British and Irish Isles. International Journal of Climatology, 2020, 40, 5329-5351.	3.5	19
60	Historical gridded reconstruction of potential evapotranspiration for the UK. Earth System Science Data, 2018, 10, 951-968.	9.9	19
61	Evaluating hydrometric networks for prediction in ungauged basins: a new methodology and its application to England and Wales. Hydrology Research, 2013, 44, 401-418.	2.7	17
62	Enhancing Drought Monitoring and Early Warning for the United Kingdom through Stakeholder Coinquiries. Weather, Climate, and Society, 2019, 11, 49-63.	1.1	16
63	The 2019/2020 floods in the <scp>UK</scp>: a hydrological appraisal. Weather, 2021, 76, 378-384.	0.7	16
64	The Complex and Spatially Diverse Patterns of Hydrological Droughts Across Europe. Water Resources Research, 2022, 58, .	4.2	16
65	Linking drought indices to impacts to support drought risk assessment in Liaoning province, China. Natural Hazards and Earth System Sciences, 2020, 20, 889-906.	3.6	15
66	Streamflow frequency changes across western Europe and interactions with North Atlantic atmospheric circulation patterns. Global and Planetary Change, 2022, 212, 103797.	3.5	12
67	Regional Differences in Spatiotemporal Drought Characteristics in Great Britain. Frontiers in Environmental Science, 2021, 9, .	3.3	10
68	Using variograms to detect and attribute hydrological change. Hydrology and Earth System Sciences, 2015, 19, 2395-2408.	4.9	9
69	Cumbrian floods, 5/6 December 2015. Weather, 2016, 71, 36-37.	0.7	9
70	Stakeholder Coinquiries on Drought Impacts, Monitoring, and Early Warning Systems. Bulletin of the American Meteorological Society, 2016, 97, ES217-ES220.	3.3	8
71	Oceanic conditions associated with Euro-Atlantic high pressure and UK drought. Environmental Research Communications, 2019, 1, 101001.	2.3	8
72	Representation of Drought Events in the United Kingdom: Contrasting 200 years of News Texts and Rainfall Records. Frontiers in Environmental Science, 2022, 10, .	3.3	4

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73	Projections of Flood Risk in Europe. , 2012, , 491-511.		2
74	Reply to 'Drivers of the 2013/14 winter floods in the UK'. Nature Climate Change, 2015, 5, 491-492.	18.8	2
75	Linking drought indices to impacts in the Liaoning Province of China. Proceedings of the International Association of Hydrological Sciences, 0, 383, 267-272.	1.0	2
76	Drought monitoring and early warning in China: a review of research to pave the way for operational systems. Proceedings of the International Association of Hydrological Sciences, 0, 383, 273-279.	1.0	1