David A Lavers

List of Publications by Year
in descending order

47 papers	3,292 citations	218677 26 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	2371 citing authors

#	Article	IF	Citations
1	Winter floods in Britain are connected to atmospheric rivers. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	291
2	The nexus between atmospheric rivers and extreme precipitation across Europe. Geophysical Research Letters, 2013, 40, 3259-3264.	4.0	274
3	The detection of atmospheric rivers in atmospheric reanalyses and their links to British winter floods and the largeâ€scale climatic circulation. Journal of Geophysical Research, 2012, 117, .	3.3	245
4	Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. Geoscientific Model Development, 2018, 11, 2455-2474.	3.6	221
5	Assessing the climateâ€scale variability of atmospheric rivers affecting western North America. Geophysical Research Letters, 2017, 44, 7900-7908.	4.0	194
6	Global Analysis of Climate Change Projection Effects on Atmospheric Rivers. Geophysical Research Letters, 2018, 45, 4299-4308.	4.0	182
7	The contribution of atmospheric rivers to precipitation in Europe and the United States. Journal of Hydrology, 2015, 522, 382-390.	5.4	177
8	Future changes in atmospheric rivers and their implications for winter flooding in Britain. Environmental Research Letters, 2013, 8, 034010.	5.2	155
9	Precipitation regime change in Western North America: The role of Atmospheric Rivers. Scientific Reports, 2019, 9, 9944.	3.3	153
10	Climate change intensification of horizontal water vapor transport in CMIP5. Geophysical Research Letters, 2015, 42, 5617-5625.	4.0	127
11	The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13777-13802.	3.3	126
12	Atmospheric Rivers and Flooding over the Central United States. Journal of Climate, 2013, 26, 7829-7836.	3.2	123
13	Sensitivity of Tropical Cyclone Rainfall to Idealized Global-Scale Forcings*. Journal of Climate, 2014, 27, 4622-4641.	3.2	98
14	Predictability of horizontal water vapor transport relative to precipitation: Enhancing situational awareness for forecasting western U.S. extreme precipitation and flooding. Geophysical Research Letters, 2016, 43, 2275-2282.	4.0	75
15	Global Assessment of Atmospheric River Prediction Skill. Journal of Hydrometeorology, 2018, 19, 409-426.	1.9	69
16	Linking Atmospheric River Hydrological Impacts on the U.S. West Coast to Rossby Wave Breaking. Journal of Climate, 2017, 30, 3381-3399.	3.2	68
17	Extending medium-range predictability of extreme hydrological events in Europe. Nature Communications, 2014, 5, 5382.	12.8	66
18	Atmospheric rivers moisture sources from a Lagrangian perspective. Earth System Dynamics, 2016, 7, 371-384.	7.1	65

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19	A multiple model assessment of seasonal climate forecast skill for applications. Geophysical Research Letters, 2009, 36, .	4.0	60
20	On the skill of numerical weather prediction models to forecast atmospheric rivers over the central United States. Geophysical Research Letters, 2014, 41, 4354-4362.	4.0	58
21	ECMWF Extreme Forecast Index for water vapor transport: A forecast tool for atmospheric rivers and extreme precipitation. Geophysical Research Letters, 2016, 43, 11,852.	4.0	42
22	Floods in the Southern Alps of New Zealand: the importance of atmospheric rivers. Hydrological Processes, 2016, 30, 5063-5070.	2.6	41
23	Atmospheric rivers do not explain UK summer extreme rainfall. Journal of Geophysical Research D: Atmospheres, 2015, 120, 6731-6741.	3.3	37
24	West Coast Forecast Challenges and Development of Atmospheric River Reconnaissance. Bulletin of the American Meteorological Society, 2020, 101, E1357-E1377.	3.3	35
25	European precipitation connections with large-scale mean sea-level pressure (MSLP) fields. Hydrological Sciences Journal, 2013, 58, 310-327.	2.6	30
26	The Gauging and Modeling of Rivers in the Sky. Geophysical Research Letters, 2018, 45, 7828-7834.	4.0	30
27	Connecting large-scale atmospheric circulation, river flow and groundwater levels in a chalk catchment in southern England. Journal of Hydrology, 2015, 523, 179-189.	5.4	29
28	A vision for improving global flood forecasting. Environmental Research Letters, 2019, 14, 121002.	5.2	21
29	Were global numerical weather prediction systems capable of forecasting the extreme Colorado rainfall of 9â€“16 September 2013?. Geophysical Research Letters, 2013, 40, 6405-6410.	4.0	20
30	An Assessment of the ECMWF Extreme Forecast Index for Water Vapor Transport during Boreal Winter. Weather and Forecasting, 2017, 32, 1667-1674.	1.4	20
31	Atmospheric River Reconnaissance Observation Impact in the Navy Global Forecast System. Monthly Weather Review, 2020, 148, 763-782.	1.4	20
32	Moving beyond the catchment scale: Value and opportunities in largeâ€scale hydrology to understand our changing world. Hydrological Processes, 2020, 34, 2292-2298.	2.6	19
33	A Vision for Hydrological Prediction. Atmosphere, 2020, 11, 237.	2.3	17
34	The relationship between daily European precipitation and measures of atmospheric water vapour transport. International Journal of Climatology, 2015, 35, 2187-2192.	3.5	13
35	Precipitation Biases in the ECMWF Integrated Forecasting System. Journal of Hydrometeorology, 2021, 22, 1187-1198.	1.9	13
36	Forecast Errors and Uncertainties in Atmospheric Rivers. Weather and Forecasting, 2020, 35, 1447-1458.	1.4	13

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37	Earlier awareness of extreme winter precipitation across the western Iberian Peninsula. Meteorological Applications, 2018, 25, 622-628.	2.1	12
38	Largeâ€scale climatic influences on precipitation and discharge for a British river basin. Hydrological Processes, 2010, 24, 2555-2563.	2.6	11
39	Improved forecasts of atmospheric rivers through systematic reconnaissance, better modelling, and insights on conversion of rain to flooding. Communications Earth & Environment, 2020, 1, .	6.8	11
40	Diagnosing links between atmospheric moisture and extreme daily precipitation over the <scp>UK</scp>. International Journal of Climatology, 2016, 36, 3191-3206.	3.5	9
41	A Forecast Evaluation of Planetary Boundary Layer Height Over the Ocean. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4975-4984.	3.3	7
42	2018 International Atmospheric Rivers Conference: Multiâ€disciplinary studies and highâ€impact applications of atmospheric rivers. Atmospheric Science Letters, 2019, 20, e935.	1.9	5
43	Global and Regional Perspectives. , 2020, , 89-140.		3
44	Understanding and predicting large-scale hydrological variability in a changing environment. Proceedings of the International Association of Hydrological Sciences, 0, 383, 141-149.	1.0	3
45	Characteristics and largeâ€scale drivers of atmospheric rivers associated with extreme floods in New Zealand. International Journal of Climatology, 2022, 42, 3208-3224.	3.5	2
46	Applications of Knowledge and Predictions of Atmospheric Rivers. , 2020, , 201-218.		1
47	Atmospheric River Reconnaissance Workshop Promotes Research and Operations Partnership. Bulletin of the American Meteorological Society, 2022, 103, E810-E816.	3.3	0