

David A Lavers

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Characteristics and large-scale drivers of atmospheric rivers associated with extreme floods in New Zealand. <i>International Journal of Climatology</i> , 2022, 42, 3208-3224. | 3.5 | 2 |
| 2 | Atmospheric River Reconnaissance Workshop Promotes Research and Operations Partnership. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E810-E816. | 3.3 | 0 |
| 3 | Precipitation Biases in the ECMWF Integrated Forecasting System. <i>Journal of Hydrometeorology</i> , 2021, 22, 1187-1198. | 1.9 | 13 |
| 4 | Improved forecasts of atmospheric rivers through systematic reconnaissance, better modelling, and insights on conversion of rain to flooding. <i>Communications Earth & Environment</i> , 2020, 1, . | 6.8 | 11 |
| 5 | A Vision for Hydrological Prediction. <i>Atmosphere</i> , 2020, 11, 237. | 2.3 | 17 |
| 6 | Moving beyond the catchment scale: Value and opportunities in large-scale hydrology to understand our changing world. <i>Hydrological Processes</i> , 2020, 34, 2292-2298. | 2.6 | 19 |
| 7 | Global and Regional Perspectives. , 2020, , 89-140. | | 3 |
| 8 | West Coast Forecast Challenges and Development of Atmospheric River Reconnaissance. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1357-E1377. | 3.3 | 35 |
| 9 | Atmospheric River Reconnaissance Observation Impact in the Navy Global Forecast System. <i>Monthly Weather Review</i> , 2020, 148, 763-782. | 1.4 | 20 |
| 10 | Forecast Errors and Uncertainties in Atmospheric Rivers. <i>Weather and Forecasting</i> , 2020, 35, 1447-1458. | 1.4 | 13 |
| 11 | Applications of Knowledge and Predictions of Atmospheric Rivers. , 2020, , 201-218. | | 1 |
| 12 | Precipitation regime change in Western North America: The role of Atmospheric Rivers. <i>Scientific Reports</i> , 2019, 9, 9944. | 3.3 | 153 |
| 13 | 2018 International Atmospheric Rivers Conference: Multi-disciplinary studies and high-impact applications of atmospheric rivers. <i>Atmospheric Science Letters</i> , 2019, 20, e935. | 1.9 | 5 |
| 14 | A Forecast Evaluation of Planetary Boundary Layer Height Over the Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4975-4984. | 3.3 | 7 |
| 15 | A vision for improving global flood forecasting. <i>Environmental Research Letters</i> , 2019, 14, 121002. | 5.2 | 21 |
| 16 | The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13777-13802. | 3.3 | 126 |
| 17 | Global Assessment of Atmospheric River Prediction Skill. <i>Journal of Hydrometeorology</i> , 2018, 19, 409-426. | 1.9 | 69 |
| 18 | Earlier awareness of extreme winter precipitation across the western Iberian Peninsula. <i>Meteorological Applications</i> , 2018, 25, 622-628. | 2.1 | 12 |

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|----|---|------|-----------|
| 19 | Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. <i>Geoscientific Model Development</i> , 2018, 11, 2455-2474. | 3.6 | 221 |
| 20 | Global Analysis of Climate Change Projection Effects on Atmospheric Rivers. <i>Geophysical Research Letters</i> , 2018, 45, 4299-4308. | 4.0 | 182 |
| 21 | The Gauging and Modeling of Rivers in the Sky. <i>Geophysical Research Letters</i> , 2018, 45, 7828-7834. | 4.0 | 30 |
| 22 | Linking Atmospheric River Hydrological Impacts on the U.S. West Coast to Rossby Wave Breaking. <i>Journal of Climate</i> , 2017, 30, 3381-3399. | 3.2 | 68 |
| 23 | Assessing the climate-scale variability of atmospheric rivers affecting western North America. <i>Geophysical Research Letters</i> , 2017, 44, 7900-7908. | 4.0 | 194 |
| 24 | An Assessment of the ECMWF Extreme Forecast Index for Water Vapor Transport during Boreal Winter. <i>Weather and Forecasting</i> , 2017, 32, 1667-1674. | 1.4 | 20 |
| 25 | Atmospheric rivers moisture sources from a Lagrangian perspective. <i>Earth System Dynamics</i> , 2016, 7, 371-384. | 7.1 | 65 |
| 26 | Floods in the Southern Alps of New Zealand: the importance of atmospheric rivers. <i>Hydrological Processes</i> , 2016, 30, 5063-5070. | 2.6 | 41 |
| 27 | Predictability of horizontal water vapor transport relative to precipitation: Enhancing situational awareness for forecasting western U.S. extreme precipitation and flooding. <i>Geophysical Research Letters</i> , 2016, 43, 2275-2282. | 4.0 | 75 |
| 28 | ECMWF Extreme Forecast Index for water vapor transport: A forecast tool for atmospheric rivers and extreme precipitation. <i>Geophysical Research Letters</i> , 2016, 43, 11,852. | 4.0 | 42 |
| 29 | Diagnosing links between atmospheric moisture and extreme daily precipitation over the <sc>UK</sc>. <i>International Journal of Climatology</i> , 2016, 36, 3191-3206. | 3.5 | 9 |
| 30 | Atmospheric rivers do not explain UK summer extreme rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6731-6741. | 3.3 | 37 |
| 31 | Connecting large-scale atmospheric circulation, river flow and groundwater levels in a chalk catchment in southern England. <i>Journal of Hydrology</i> , 2015, 523, 179-189. | 5.4 | 29 |
| 32 | The contribution of atmospheric rivers to precipitation in Europe and the United States. <i>Journal of Hydrology</i> , 2015, 522, 382-390. | 5.4 | 177 |
| 33 | Climate change intensification of horizontal water vapor transport in CMIP5. <i>Geophysical Research Letters</i> , 2015, 42, 5617-5625. | 4.0 | 127 |
| 34 | The relationship between daily European precipitation and measures of atmospheric water vapour transport. <i>International Journal of Climatology</i> , 2015, 35, 2187-2192. | 3.5 | 13 |
| 35 | Sensitivity of Tropical Cyclone Rainfall to Idealized Global-Scale Forcings*. <i>Journal of Climate</i> , 2014, 27, 4622-4641. | 3.2 | 98 |
| 36 | Extending medium-range predictability of extreme hydrological events in Europe. <i>Nature Communications</i> , 2014, 5, 5382. | 12.8 | 66 |

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|----|--|-----|-----------|
| 37 | On the skill of numerical weather prediction models to forecast atmospheric rivers over the central United States. <i>Geophysical Research Letters</i> , 2014, 41, 4354-4362. | 4.0 | 58 |
| 38 | Atmospheric Rivers and Flooding over the Central United States. <i>Journal of Climate</i> , 2013, 26, 7829-7836. | 3.2 | 123 |
| 39 | The nexus between atmospheric rivers and extreme precipitation across Europe. <i>Geophysical Research Letters</i> , 2013, 40, 3259-3264. | 4.0 | 274 |
| 40 | Future changes in atmospheric rivers and their implications for winter flooding in Britain. <i>Environmental Research Letters</i> , 2013, 8, 034010. | 5.2 | 155 |
| 41 | European precipitation connections with large-scale mean sea-level pressure (MSLP) fields. <i>Hydrological Sciences Journal</i> , 2013, 58, 310-327. | 2.6 | 30 |
| 42 | Were global numerical weather prediction systems capable of forecasting the extreme Colorado rainfall of 9 th September 2013?. <i>Geophysical Research Letters</i> , 2013, 40, 6405-6410. | 4.0 | 20 |
| 43 | The detection of atmospheric rivers in atmospheric reanalyses and their links to British winter floods and the large-scale climatic circulation. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 245 |
| 44 | Winter floods in Britain are connected to atmospheric rivers. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 4.0 | 291 |
| 45 | Large-scale climatic influences on precipitation and discharge for a British river basin. <i>Hydrological Processes</i> , 2010, 24, 2555-2563. | 2.6 | 11 |
| 46 | A multiple model assessment of seasonal climate forecast skill for applications. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 60 |
| 47 | Understanding and predicting large-scale hydrological variability in a changing environment. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 383, 141-149. | 1.0 | 3 |