

Fredrik Wetterhall

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,058
citations

117625

34
h-index

175258

52
g-index

71
all docs

71
docs citations

71
times ranked

5427
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. <i>Reviews of Geophysics</i> , 2010, 48, . | 23.0 | 1,256 |
| 2 | Distribution-based scaling to improve usability of regional climate model projections for hydrological climate change impacts studies. <i>Hydrology Research</i> , 2010, 41, 211-229. | 2.7 | 215 |
| 3 | Operational early warning systems for water-related hazards in Europe. <i>Environmental Science and Policy</i> , 2012, 21, 35-49. | 4.9 | 206 |
| 4 | Deriving global flood hazard maps of fluvial floods through a physical model cascade. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4143-4156. | 4.9 | 175 |
| 5 | Technical review of large-scale hydrological models for implementation in operational flood forecasting schemes on continental level. <i>Environmental Modelling and Software</i> , 2016, 75, 68-76. | 4.5 | 174 |
| 6 | Evaluation of different downscaling techniques for hydrological climate-change impact studies at the catchment scale. <i>Climate Dynamics</i> , 2011, 37, 2087-2105. | 3.8 | 160 |
| 7 | The monetary benefit of early flood warnings in Europe. <i>Environmental Science and Policy</i> , 2015, 51, 278-291. | 4.9 | 160 |
| 8 | Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 776-785. | 3.3 | 142 |
| 9 | How do I know if my forecasts are better? Using benchmarks in hydrological ensemble prediction. <i>Journal of Hydrology</i> , 2015, 522, 697-713. | 5.4 | 129 |
| 10 | Evaluation of ensemble streamflow predictions in Europe. <i>Journal of Hydrology</i> , 2014, 517, 913-922. | 5.4 | 124 |
| 11 | Statistical precipitation downscaling in central Sweden with the analogue method. <i>Journal of Hydrology</i> , 2005, 306, 174-190. | 5.4 | 119 |
| 12 | The 2010â€“2011 drought in the Horn of Africa in ECMWF reanalysis and seasonal forecast products. <i>International Journal of Climatology</i> , 2013, 33, 1720-1729. | 3.5 | 119 |
| 13 | Tracking the uncertainty in flood alerts driven by grand ensemble weather predictions. <i>Meteorological Applications</i> , 2009, 16, 91-101. | 2.1 | 109 |
| 14 | Visualizing probabilistic flood forecast information: expert preferences and perceptions of best practice in uncertainty communication. <i>Hydrological Processes</i> , 2013, 27, 132-146. | 2.6 | 100 |
| 15 | The Potential Predictability of Fire Danger Provided by Numerical Weather Prediction. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 2469-2491. | 1.5 | 99 |
| 16 | Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1432. | 6.5 | 96 |
| 17 | Daily precipitation-downscaling techniques in three Chinese regions. <i>Water Resources Research</i> , 2006, 42, . | 4.2 | 93 |
| 18 | Forecasting droughts in East Africa. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 611-620. | 4.9 | 93 |

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|----|--|------|-----------|
| 19 | Modelling climate impact on floods with ensemble climate projections. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 282-297. | 2.7 | 92 |
| 20 | Skilful seasonal forecasts of streamflow over Europe?. Hydrology and Earth System Sciences, 2018, 22, 2057-2072. | 4.9 | 88 |
| 21 | Seasonal forecasts of droughts in African basins using the Standardized Precipitation Index. Hydrology and Earth System Sciences, 2013, 17, 2359-2373. | 4.9 | 84 |
| 22 | Comparison of drought indicators derived from multiple data sets over Africa. Hydrology and Earth System Sciences, 2014, 18, 1625-1640. | 4.9 | 72 |
| 23 | Conditioning model output statistics of regional climate model precipitation on circulation patterns. Nonlinear Processes in Geophysics, 2012, 19, 623-633. | 1.3 | 61 |
| 24 | Statistical downscaling of daily precipitation over Sweden using GCM output. Theoretical and Applied Climatology, 2009, 96, 95-103. | 2.8 | 59 |
| 25 | Global meteorological drought " Part 2: Seasonal forecasts. Hydrology and Earth System Sciences, 2014, 18, 2669-2678. | 4.9 | 59 |
| 26 | HESS Opinions "Forecaster priorities for improving probabilistic flood forecasts". Hydrology and Earth System Sciences, 2013, 17, 4389-4399. | 4.9 | 53 |
| 27 | The potential value of seasonal forecasts in a changing climate in southern Africa. Hydrology and Earth System Sciences, 2014, 18, 1525-1538. | 4.9 | 51 |
| 28 | Seasonality properties of four statistical-downscaling methods in central Sweden. Theoretical and Applied Climatology, 2007, 87, 123-137. | 2.8 | 50 |
| 29 | Coupling ensemble weather predictions based on TIGGE database with Grid-Xinjiang model for flood forecast. Advances in Geosciences, 0, 29, 61-67. | 12.0 | 46 |
| 30 | Advances in the Application and Utility of Subseasonal-to-Seasonal Predictions. Bulletin of the American Meteorological Society, 2022, 103, E1448-E1472. | 3.3 | 45 |
| 31 | Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin. Hydrology and Earth System Sciences, 2015, 19, 2577-2586. | 4.9 | 43 |
| 32 | On the Operational Implementation of the European Flood Awareness System (EFAS). , 2016, , 313-348. | | 42 |
| 33 | Using the Fire Weather Index(FWI) to improve the estimation of fire emissions from fire radiative power(FRP) observations. Atmospheric Chemistry and Physics, 2018, 18, 5359-5370. | 4.9 | 42 |
| 34 | Using ensemble climate projections to assess probabilistic hydrological change in the Nordic region. Natural Hazards and Earth System Sciences, 2011, 11, 2295-2306. | 3.6 | 39 |
| 35 | Willingness-to-pay for a probabilistic flood forecast: a risk-based decision-making game. Hydrology and Earth System Sciences, 2016, 20, 3109-3128. | 4.9 | 38 |
| 36 | Global meteorological drought " Part 1: Probabilistic monitoring. Hydrology and Earth System Sciences, 2014, 18, 2657-2667. | 4.9 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Hydrological drought forecasts outperform meteorological drought forecasts. <i>Environmental Research Letters</i> , 2020, 15, 084010. | 5.2 | 33 |
| 38 | Climate impacts on river flow: projections for the Medway catchment, UK, with UKCP09 and CATCHMOD. <i>Hydrological Processes</i> , 2010, 24, 3476-3489. | 2.6 | 32 |
| 39 | Characterising droughts in Central America with uncertain hydro-meteorological data. <i>Theoretical and Applied Climatology</i> , 2019, 137, 2125-2138. | 2.8 | 30 |
| 40 | Prediction of the Caspian Sea level using ECMWF seasonal forecasts and reanalysis. <i>Theoretical and Applied Climatology</i> , 2014, 117, 41-60. | 2.8 | 29 |
| 41 | Assessment of a 1-hour gridded precipitation dataset to drive a hydrological model: a case study of the summer 2007 floods in the Upper Severn, UK. <i>Hydrology Research</i> , 2013, 44, 89-105. | 2.7 | 28 |
| 42 | The extreme runoff index for flood early warning in Europe. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1505-1515. | 3.6 | 28 |
| 43 | Potential of Pan-European Seasonal Hydrometeorological Drought Forecasts Obtained from a Multihazard Early Warning System. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E368-E393. | 3.3 | 25 |
| 44 | Investigating the application of climate models in flood projection across the UK. <i>Hydrological Processes</i> , 2014, 28, 2810-2823. | 2.6 | 24 |
| 45 | The benefit of seamless forecasts for hydrological predictions over Europe. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3409-3420. | 4.9 | 24 |
| 46 | Building a Multimodel Flood Prediction System with the TIGGE Archive. <i>Journal of Hydrometeorology</i> , 2016, 17, 2923-2940. | 1.9 | 23 |
| 47 | How do I know if Iâ€™ve improved my continental scale flood early warning system?. <i>Environmental Research Letters</i> , 2017, 12, 044006. | 5.2 | 20 |
| 48 | Forecast convergence score: a forecaster's approach to analysing hydro-meteorological forecast systems. <i>Advances in Geosciences</i> , 0, 29, 27-32. | 12.0 | 20 |
| 49 | The extreme forecast index at the seasonal scale. <i>Atmospheric Science Letters</i> , 2013, 14, 256-262. | 1.9 | 18 |
| 50 | Effects of temporal resolution of input precipitation on the performance of hydrological forecasting. <i>Advances in Geosciences</i> , 0, 29, 21-25. | 12.0 | 18 |
| 51 | Improving Forecasts of Biomass Burning Emissions with the Fire Weather Index. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 2789-2799. | 1.5 | 16 |
| 52 | Imbalanced land surface water budgets in a numerical weather prediction system. <i>Geophysical Research Letters</i> , 2015, 42, 4411-4417. | 4.0 | 12 |
| 53 | Model inter-comparison between statistical and dynamic model assessments of the long-term stability of blanket peat in Great Britain (1940â€“2099). <i>Climate Research</i> , 2010, 45, 227-248. | 1.1 | 12 |
| 54 | Hydrological Challenges in Meteorological Post-processing. , 2019, , 239-253. | | 4 |

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|----|---|-----|-----------|
| 55 | Hydrological Ensemble Prediction Systems Around the Globe. , 2019, , 1187-1221. | | 2 |
| 56 | On the implementation of post-processing of runoff forecast ensembles. Journal of Hydrometeorology, 2021, , . | 1.9 | 1 |
| 57 | Corrigendum to "Seasonal predictions of agro-meteorological drought indicators for the Limpopo basin" published in Hydrol. Earth Syst. Sci., 19, 2577â€”2586, 2015. Hydrology and Earth System Sciences, 2015, 19, 2637-2637. | 4.9 | 0 |
| 58 | Hydrological Challenges in Meteorological Post-processing. , 2016, , 1-15. | | 0 |