# Darren Ficklin

List of Publications by Year
in descending order



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|---|---|---|---|
| 67 papers | 3,808 citations | 159358<br>30 h-index | 128067<br>60 g-index |
| 70 all docs | 70 docs citations | 70 times ranked | 5366 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hydrological Intensification Will Increase the Complexity of Water Resource Management. Earth's Future, 2022, 10, . | 2.4 | 26 |
| 2 | Confronting the water potential information gap. Nature Geoscience, 2022, 15, 158-164. | 5.4 | 47 |
| 3 | With warming, spring streamflow peaks are more coupled with vegetation greenâ€up than snowmelt in the northeastern United States. Hydrological Processes, 2022, 36, . | 1.1 | 6 |
| 4 | Choosing an arbitrary calibration period for hydrologic models: How much does it influence water balance simulations?. Hydrological Processes, 2021, 35, e14045. | 1.1 | 20 |
| 5 | Climate change impacts and strategies for adaptation for water resource management in Indiana. Climatic Change, 2021, 165, 1. | 1.7 | 9 |
| 6 | Mechanisms for engaging social systems in freshwater science research. Freshwater Science, 2021, 40, 245-251. | 0.9 | 7 |
| 7 | Coupling terrestrial and aquatic thermal processes for improving stream temperature modeling at the watershed scale. Journal of Hydrology, 2021, 603, 126983. | 2.3 | 8 |
| 8 | Incorporating rain-on-snow into the SWAT model results in more accurate simulations of hydrologic extremes. Journal of Hydrology, 2021, 603, 126972. | 2.3 | 18 |
| 9 | Bias Correction of Paleoclimatic Reconstructions: A New Look at 1,200+ Years of Upper Colorado River Flow. Geophysical Research Letters, 2020, 47, e2019GL086689. | 1.5 | 23 |
| 10 | Improving Hydrological Models With the Assimilation of Crowdsourced Data. Water Resources Research, 2020, 56, e2019WR026325. | 1.7 | 19 |
| 11 | A New Perspective on Terrestrial Hydrologic Intensity That Incorporates Atmospheric Water Demand. Geophysical Research Letters, 2019, 46, 8114-8124. | 1.5 | 13 |
| 12 | Hydrologic and thermal conditions occupied by a species within a single watershed predict the geographic extent of occurrence of freshwater fishes. Ecohydrology, 2019, 12, e2071. | 1.1 | 3 |
| 13 | Optimization of linear stream temperature model parameters in the soil and water assessment tool for the continental United States. Ecological Engineering, 2019, 127, 125-134. | 1.6 | 6 |
| 14 | Response of ecosystem intrinsic water use efficiency and gross primary productivity to rising vapor pressure deficit. Environmental Research Letters, 2019, 14, 074023. | 2.2 | 94 |
| 15 | Multispecies conservation of freshwater fish assemblages in response to climate change in the southeastern United States. Diversity and Distributions, 2019, 25, 1388-1398. | 1.9 | 18 |
| 16 | Streamflow regimes and geologic conditions are more important than water temperature when projecting future crayfish distributions. Climatic Change, 2019, 154, 107-123. | 1.7 | 12 |
| 17 | Comparing three approaches to reconstructing streamflow using tree rings in the Wabash River basin in the Midwestern, US. Journal of Hydrology, 2019, 573, 829-840. | 2.3 | 12 |
| 18 | Hydrologic responses to projected climate change in ecologically diverse watersheds of the Gulf Coast, United States. International Journal of Climatology, 2019, 39, 2227-2243. | 1.5 | 11 |

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|---|---|---|---|
| 19 | Drought legacies are dependent on water table depth, wood anatomy and drought timing across the eastern US. Ecology Letters, 2019, 22, 119-127. | 3.0 | 106 |
| 20 | Evapotranspiration sensitivity to air temperature across a snow-influenced watershed: Space-for-time substitution versus integrated watershed modeling. Journal of Hydrology, 2018, 556, 645-659. | 2.3 | 11 |
| 21 | Incorporation of the equilibrium temperature approach in aÂSoil and Water Assessment Tool hydroclimatological stream temperature model. Hydrology and Earth System Sciences, 2018, 22, 2343-2357. | 1.9 | 24 |
| 22 | Modeling Landscape Change Effects on Stream Temperature Using the Soil and Water Assessment Tool. Water (Switzerland), 2018, 10, 1143. | 1.2 | 7 |
| 23 | The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. Agricultural and Forest Meteorology, 2018, 263, 292-307. | 1.9 | 29 |
| 24 | Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: Successes and challenges. Environmental Modelling and Software, 2018, 109, 368-379. | 1.9 | 28 |
| 25 | Natural and managed watersheds show similar responses to recent climate change. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8553-8557. | 3.3 | 72 |
| 26 | Historic and projected changes in vapor pressure deficit suggest a continentalâ€scale drying of the United States atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2061-2079. | 1.2 | 234 |
| 27 | Responding to a Groundwater Crisis: The Effects of Self-Imposed Economic Incentives. Journal of the Association of Environmental and Resource Economists, 2017, 4, 985-1023. | 1.0 | 39 |
| 28 | Projected hydrological changes in the North Carolina piedmont using bias-corrected North American Regional Climate Change Assessment Program (NARCCAP) data. Journal of Hydrology: Regional Studies, 2017, 12, 273-288. | 1.0 | 3 |
| 29 | Future projections of streamflow magnitude and timing differ across coastal watersheds of the western United States. International Journal of Climatology, 2017, 37, 4493-4508. | 1.5 | 8 |
| 30 | Climatic and physiographic controls of spatial variability in surface water balance over the contiguous <scp>U</scp>nited <scp>S</scp>tates using the <scp>B</scp>udyko relationship. Water Resources Research, 2017, 53, 7630-7643. | 1.7 | 57 |
| 31 | The Potential Impacts of Climate Change on Biodiversity in Flowing Freshwater Systems. Annual Review of Ecology, Evolution, and Systematics, 2017, 48, 111-133. | 3.8 | 104 |
| 32 | Changes in the Mechanisms Causing Rapid Drought Cessation in the Southeastern United States. Geophysical Research Letters, 2017, 44, 12,476. | 1.5 | 15 |
| 33 | MOESHA: A Genetic Algorithm for Automatic Calibration and Estimation of Parameter Uncertainty and Sensitivity of Hydrologic Models. Transactions of the ASABE, 2017, 60, 1259-1269. | 1.1 | 9 |
| 34 | Technical Note: The impact of spatial scale in bias correction of climate model output for hydrologic impact studies. Hydrology and Earth System Sciences, 2016, 20, 685-696. | 1.9 | 7 |
| 35 | Comparison of CMIP3 and CMIP5 projected hydrologic conditions over the Upper Colorado River Basin. International Journal of Climatology, 2016, 36, 3807-3818. | 1.5 | 25 |
| 36 | Assessing differences in snowmelt-dependent hydrologic projections using CMIP3 and CMIP5 climate forcing data for the western United States. Hydrology Research, 2016, 47, 483-500. | 1.1 | 25 |

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|---|---|---|---|
| 37 | The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. Nature Climate Change, 2016, 6, 1023-1027. | 8.1 | 734 |
| 38 | Estimating groundwater dynamics at a Colorado River floodplain site using historical hydrological data and climate information. Water Resources Research, 2016, 52, 1881-1898. | 1.7 | 1 |
| 39 | A hydropedological approach to quantifying groundwater recharge in various glacial settings of the midâ€continental USA. Hydrological Processes, 2016, 30, 1594-1608. | 1.1 | 15 |
| 40 | Projecting future winegrape yields using a combination of<i>V</i><i>itis vinifera</i>â€…L. growth rings and soil moisture simulations, northern California, USA. Australian Journal of Grape and Wine Research, 2016, 22, 73-80. | 1.0 | 8 |
| 41 | Impacts of recent climate change on trends in baseflow and stormflow in United States watersheds. Geophysical Research Letters, 2016, 43, 5079-5088. | 1.5 | 92 |
| 42 | The Influence of Climate Model Biases on Projections of Aridity and Drought. Journal of Climate, 2016, 29, 1269-1285. | 1.2 | 36 |
| 43 | A climatic deconstruction of recent drought trends in the United States. Environmental Research Letters, 2015, 10, 044009. | 2.2 | 84 |
| 44 | Assessment of three dimensionless measures of model performance. Environmental Modelling and Software, 2015, 73, 167-174. | 1.9 | 59 |
| 45 | 21st century increases in the likelihood of extreme hydrologic conditions for the mountainous basins of the Southwestern United States. Journal of Hydrology, 2015, 529, 340-353. | 2.3 | 30 |
| 46 | Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. Applied Geography, 2015, 63, 357-368. | 1.7 | 113 |
| 47 | Incorporation of the Penmanâ€“Monteith potential evapotranspiration method into a Palmer Drought Severity Index Tool. Computers and Geosciences, 2015, 85, 136-141. | 2.0 | 23 |
| 48 | Climate change and stream temperature projections in the Columbia River basin: habitat implications of spatial variation in hydrologic drivers. Hydrology and Earth System Sciences, 2014, 18, 4897-4912. | 1.9 | 55 |
| 49 | SWAT hydrologic model parameter uncertainty and its implications for hydroclimatic projections in snowmelt-dependent watersheds. Journal of Hydrology, 2014, 519, 2081-2090. | 2.3 | 56 |
| 50 | Impacts and uncertainties of climate change on streamflow of the Johor River Basin, Malaysia using a CMIP5 General Circulation Model ensemble. Journal of Water and Climate Change, 2014, 5, 676-695. | 1.2 | 68 |
| 51 | Climate change sensitivity assessment of streamflow and agricultural pollutant transport in California's Central Valley using Latin hypercube sampling. Hydrological Processes, 2013, 27, 2666-2675. | 1.1 | 25 |
| 52 | Watershed modelling of hydrology and water quality in the Sacramento River watershed, California. Hydrological Processes, 2013, 27, 236-250. | 1.1 | 46 |
| 53 | Assessment of climate change impacts on hydrology and water quality with a watershed modeling approach. Science of the Total Environment, 2013, 450-451, 72-82. | 3.9 | 102 |
| 54 | Effects of projected climate change on the hydrology in the Mono Lake Basin, California. Climatic Change, 2013, 116, 111-131. | 1.7 | 60 |

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|---|---|---|---|
| 55 | Effects of climate change on stream temperature, dissolved oxygen, and sediment concentration in the Sierra Nevada in California. Water Resources Research, 2013, 49, 2765-2782. | 1.7 | 129 |
| 56 | A Comparison of the Curve Number and Green-Ampt Models in an Agricultural Watershed. Transactions of the ASABE, 2013, 56, 61-69. | 1.1 | 39 |
| 57 | Climate Change Impacts on Streamflow and Subbasin-Scale Hydrology in the Upper Colorado River Basin. PLoS ONE, 2013, 8, e71297. | 1.1 | 108 |
| 58 | Development and application of a hydroclimatological stream temperature model within the Soil and Water Assessment Tool. Water Resources Research, 2012, 48, . | 1.7 | 89 |
| 59 | Projections of 21st Century Sierra Nevada Local Hydrologic Flow Components Using an Ensemble of General Circulation Models<sup>1</sup>. Journal of the American Water Resources Association, 2012, 48, 1104-1125. | 1.0 | 30 |
| 60 | Approaches of soil data aggregation for hydrologic simulations. Journal of Hydrology, 2012, 464-465, 467-476. | 2.3 | 9 |
| 61 | Impact of climate change on streamflow in the arid Shiyang River Basin of northwest China. Hydrological Processes, 2012, 26, 2733-2744. | 1.1 | 61 |
| 62 | Aggregation Strategies for SSURGO Data: Effects on SWAT Soil Inputs and Hydrologic Outputs. Soil Science Society of America Journal, 2011, 75, 1908-1921. | 1.2 | 19 |
| 63 | Sensitivity of agricultural runoff loads to rising levels of CO2 and climate change in the San Joaquin Valley watershed of California. Environmental Pollution, 2010, 158, 223-234. | 3.7 | 77 |
| 64 | Sensitivity of groundwater recharge under irrigated agriculture to changes in climate, CO2 concentrations and canopy structure. Agricultural Water Management, 2010, 97, 1039-1050. | 2.4 | 40 |
| 65 | Climate change sensitivity assessment of a highly agricultural watershed using SWAT. Journal of Hydrology, 2009, 374, 16-29. | 2.3 | 282 |
| 66 | Spatio-temporal variations of soil nutrients influenced by an altered land tenure system in China. Geoderma, 2009, 152, 23-34. | 2.3 | 79 |
| 67 | Dynamic modeling of organophosphate pesticide load in surface water in the northern San Joaquin Valley watershed of California. Environmental Pollution, 2008, 156, 1171-1181. | 3.7 | 76 |