

# Darren Ficklin

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

3,808  
citations

159585

30  
h-index

128289

60  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5366  
citing authors

#	ARTICLE	IF	CITATIONS
1	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. <i>Nature Climate Change</i> , 2016, 6, 1023-1027.	18.8	734
2	Climate change sensitivity assessment of a highly agricultural watershed using SWAT. <i>Journal of Hydrology</i> , 2009, 374, 16-29.	5.4	282
3	Historic and projected changes in vapor pressure deficit suggest a continental-scale drying of the United States atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2061-2079.	3.3	234
4	Effects of climate change on stream temperature, dissolved oxygen, and sediment concentration in the Sierra Nevada in California. <i>Water Resources Research</i> , 2013, 49, 2765-2782.	4.2	129
5	Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. <i>Applied Geography</i> , 2015, 63, 357-368.	3.7	113
6	Climate Change Impacts on Streamflow and Subbasin-Scale Hydrology in the Upper Colorado River Basin. <i>PLoS ONE</i> , 2013, 8, e71297.	2.5	108
7	Drought legacies are dependent on water table depth, wood anatomy and drought timing across the eastern US. <i>Ecology Letters</i> , 2019, 22, 119-127.	6.4	106
8	The Potential Impacts of Climate Change on Biodiversity in Flowing Freshwater Systems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017, 48, 111-133.	8.3	104
9	Assessment of climate change impacts on hydrology and water quality with a watershed modeling approach. <i>Science of the Total Environment</i> , 2013, 450-451, 72-82.	8.0	102
10	Response of ecosystem intrinsic water use efficiency and gross primary productivity to rising vapor pressure deficit. <i>Environmental Research Letters</i> , 2019, 14, 074023.	5.2	94
11	Impacts of recent climate change on trends in baseflow and stormflow in United States watersheds. <i>Geophysical Research Letters</i> , 2016, 43, 5079-5088.	4.0	92
12	Development and application of a hydroclimatological stream temperature model within the Soil and Water Assessment Tool. <i>Water Resources Research</i> , 2012, 48, .	4.2	89
13	A climatic deconstruction of recent drought trends in the United States. <i>Environmental Research Letters</i> , 2015, 10, 044009.	5.2	84
14	Spatio-temporal variations of soil nutrients influenced by an altered land tenure system in China. <i>Geoderma</i> , 2009, 152, 23-34.	5.1	79
15	Sensitivity of agricultural runoff loads to rising levels of CO <sub>2</sub> and climate change in the San Joaquin Valley watershed of California. <i>Environmental Pollution</i> , 2010, 158, 223-234.	7.5	77
16	Dynamic modeling of organophosphate pesticide load in surface water in the northern San Joaquin Valley watershed of California. <i>Environmental Pollution</i> , 2008, 156, 1171-1181.	7.5	76
17	Natural and managed watersheds show similar responses to recent climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8553-8557.	7.1	72
18	Impacts and uncertainties of climate change on streamflow of the Johor River Basin, Malaysia using a CMIP5 General Circulation Model ensemble. <i>Journal of Water and Climate Change</i> , 2014, 5, 676-695.	2.9	68

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19	Impact of climate change on streamflow in the arid Shiyang River Basin of northwest China. <i>Hydrological Processes</i> , 2012, 26, 2733-2744.	2.6	61
20	Effects of projected climate change on the hydrology in the Mono Lake Basin, California. <i>Climatic Change</i> , 2013, 116, 111-131.	3.6	60
21	Assessment of three dimensionless measures of model performance. <i>Environmental Modelling and Software</i> , 2015, 73, 167-174.	4.5	59
22	Climatic and physiographic controls of spatial variability in surface water balance over the contiguous United States using the Budyko relationship. <i>Water Resources Research</i> , 2017, 53, 7630-7643.	4.2	57
23	SWAT hydrologic model parameter uncertainty and its implications for hydroclimatic projections in snowmelt-dependent watersheds. <i>Journal of Hydrology</i> , 2014, 519, 2081-2090.	5.4	56
24	Climate change and stream temperature projections in the Columbia River basin: habitat implications of spatial variation in hydrologic drivers. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4897-4912.	4.9	55
25	Confronting the water potential information gap. <i>Nature Geoscience</i> , 2022, 15, 158-164.	12.9	47
26	Watershed modelling of hydrology and water quality in the Sacramento River watershed, California. <i>Hydrological Processes</i> , 2013, 27, 236-250.	2.6	46
27	Sensitivity of groundwater recharge under irrigated agriculture to changes in climate, CO <sub>2</sub> concentrations and canopy structure. <i>Agricultural Water Management</i> , 2010, 97, 1039-1050.	5.6	40
28	A Comparison of the Curve Number and Green-Ampt Models in an Agricultural Watershed. <i>Transactions of the ASABE</i> , 2013, 56, 61-69.	1.1	39
29	Responding to a Groundwater Crisis: The Effects of Self-Imposed Economic Incentives. <i>Journal of the Association of Environmental and Resource Economists</i> , 2017, 4, 985-1023.	1.5	39
30	The Influence of Climate Model Biases on Projections of Aridity and Drought. <i>Journal of Climate</i> , 2016, 29, 1269-1285.	3.2	36
31	Projections of 21st Century Sierra Nevada Local Hydrologic Flow Components Using an Ensemble of General Circulation Models <sup>1</sup> . <i>Journal of the American Water Resources Association</i> , 2012, 48, 1104-1125.	2.4	30
32	21st century increases in the likelihood of extreme hydrologic conditions for the mountainous basins of the Southwestern United States. <i>Journal of Hydrology</i> , 2015, 529, 340-353.	5.4	30
33	The surface-atmosphere exchange of carbon dioxide in tropical rainforests: Sensitivity to environmental drivers and flux measurement methodology. <i>Agricultural and Forest Meteorology</i> , 2018, 263, 292-307.	4.8	29
34	Embedding co-production and addressing uncertainty in watershed modeling decision-support tools: Successes and challenges. <i>Environmental Modelling and Software</i> , 2018, 109, 368-379.	4.5	28
35	Hydrological Intensification Will Increase the Complexity of Water Resource Management. <i>Earth's Future</i> , 2022, 10, .	6.3	26
36	Climate change sensitivity assessment of streamflow and agricultural pollutant transport in California's Central Valley using Latin hypercube sampling. <i>Hydrological Processes</i> , 2013, 27, 2666-2675.	2.6	25

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37	Comparison of CMIP3 and CMIP5 projected hydrologic conditions over the Upper Colorado River Basin. <i>International Journal of Climatology</i> , 2016, 36, 3807-3818.	3.5	25
38	Assessing differences in snowmelt-dependent hydrologic projections using CMIP3 and CMIP5 climate forcing data for the western United States. <i>Hydrology Research</i> , 2016, 47, 483-500.	2.7	25
39	Incorporation of the equilibrium temperature approach in a Soil and Water Assessment Tool hydroclimatological stream temperature model. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 2343-2357.	4.9	24
40	Incorporation of the Penman-Monteith potential evapotranspiration method into a Palmer Drought Severity Index Tool. <i>Computers and Geosciences</i> , 2015, 85, 136-141.	4.2	23
41	Bias Correction of Paleoclimatic Reconstructions: A New Look at 1,200+ Years of Upper Colorado River Flow. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086689.	4.0	23
42	Choosing an arbitrary calibration period for hydrologic models: How much does it influence water balance simulations?. <i>Hydrological Processes</i> , 2021, 35, e14045.	2.6	20
43	Aggregation Strategies for SSURGO Data: Effects on SWAT Soil Inputs and Hydrologic Outputs. <i>Soil Science Society of America Journal</i> , 2011, 75, 1908-1921.	2.2	19
44	Improving Hydrological Models With the Assimilation of Crowdsourced Data. <i>Water Resources Research</i> , 2020, 56, e2019WR026325.	4.2	19
45	Multispecies conservation of freshwater fish assemblages in response to climate change in the southeastern United States. <i>Diversity and Distributions</i> , 2019, 25, 1388-1398.	4.1	18
46	Incorporating rain-on-snow into the SWAT model results in more accurate simulations of hydrologic extremes. <i>Journal of Hydrology</i> , 2021, 603, 126972.	5.4	18
47	A hydrogeological approach to quantifying groundwater recharge in various glacial settings of the mid-continental USA. <i>Hydrological Processes</i> , 2016, 30, 1594-1608.	2.6	15
48	Changes in the Mechanisms Causing Rapid Drought Cessation in the Southeastern United States. <i>Geophysical Research Letters</i> , 2017, 44, 12,476.	4.0	15
49	A New Perspective on Terrestrial Hydrologic Intensity That Incorporates Atmospheric Water Demand. <i>Geophysical Research Letters</i> , 2019, 46, 8114-8124.	4.0	13
50	Streamflow regimes and geologic conditions are more important than water temperature when projecting future crayfish distributions. <i>Climatic Change</i> , 2019, 154, 107-123.	3.6	12
51	Comparing three approaches to reconstructing streamflow using tree rings in the Wabash River basin in the Midwestern, US. <i>Journal of Hydrology</i> , 2019, 573, 829-840.	5.4	12
52	Evapotranspiration sensitivity to air temperature across a snow-influenced watershed: Space-for-time substitution versus integrated watershed modeling. <i>Journal of Hydrology</i> , 2018, 556, 645-659.	5.4	11
53	Hydrologic responses to projected climate change in ecologically diverse watersheds of the Gulf Coast, United States. <i>International Journal of Climatology</i> , 2019, 39, 2227-2243.	3.5	11
54	Approaches of soil data aggregation for hydrologic simulations. <i>Journal of Hydrology</i> , 2012, 464-465, 467-476.	5.4	9

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55	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
56	Climate change impacts and strategies for adaptation for water resource management in Indiana. Climatic Change, 2021, 165, 1.	3.6	9
57	Projecting future winegrape yields using a combination of <i>Vitis vinifera</i> L. growth rings and soil moisture simulations, northern California, USA. Australian Journal of Grape and Wine Research, 2016, 22, 73-80.	2.1	8
58	Future projections of streamflow magnitude and timing differ across coastal watersheds of the western United States. International Journal of Climatology, 2017, 37, 4493-4508.	3.5	8
59	Coupling terrestrial and aquatic thermal processes for improving stream temperature modeling at the watershed scale. Journal of Hydrology, 2021, 603, 126983.	5.4	8
60	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.	4.9	7
61	Modeling Landscape Change Effects on Stream Temperature Using the Soil and Water Assessment Tool. Water (Switzerland), 2018, 10, 1143.	2.7	7
62	Mechanisms for engaging social systems in freshwater science research. Freshwater Science, 2021, 40, 245-251.	1.8	7
63	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.	3.6	6
64	With warming, spring streamflow peaks are more coupled with vegetation greenup than snowmelt in the northeastern United States. Hydrological Processes, 2022, 36, .	2.6	6
65	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.	2.4	3
66	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.	2.4	3
67	Estimating groundwater dynamics at a Colorado River floodplain site using historical hydrological data and climate information. Water Resources Research, 2016, 52, 1881-1898.	4.2	1