Darren Ficklin

List of Publications by Year
in descending order

67 papers	3,808 citations	159525 30 h-index	128225 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. Nature Climate Change, 2016, 6, 1023-1027.	8.1	734
2	Climate change sensitivity assessment of a highly agricultural watershed using SWAT. Journal of Hydrology, 2009, 374, 16-29.	2.3	282
3	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
4	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
5	Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. Applied Geography, 2015, 63, 357-368.	1.7	113
6	Climate Change Impacts on Streamflow and Subbasin-Scale Hydrology in the Upper Colorado River Basin. PLoS ONE, 2013, 8, e71297.	1.1	108
7	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
8	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
9	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
10	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
11	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
12	Development and application of a hydroclimatological stream temperature model within the Soil and Water Assessment Tool. Water Resources Research, 2012, 48, .	1.7	89
13	A climatic deconstruction of recent drought trends in the United States. Environmental Research Letters, 2015, 10, 044009.	2.2	84
14	Spatio-temporal variations of soil nutrients influenced by an altered land tenure system in China. Geoderma, 2009, 152, 23-34.	2.3	79
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Impact of climate change on streamflow in the arid Shiyang River Basin of northwest China. Hydrological Processes, 2012, 26, 2733-2744.	1.1	61
20	Effects of projected climate change on the hydrology in the Mono Lake Basin, California. Climatic Change, 2013, 116, 111-131.	1.7	60
21	Assessment of three dimensionless measures of model performance. Environmental Modelling and Software, 2015, 73, 167-174.	1.9	59
22	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
23	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
24	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
25	Confronting the water potential information gap. Nature Geoscience, 2022, 15, 158-164.	5.4	47
26	Watershed modelling of hydrology and water quality in the Sacramento River watershed, California. Hydrological Processes, 2013, 27, 236-250.	1.1	46
27	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
28	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
29	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
30	The Influence of Climate Model Biases on Projections of Aridity and Drought. Journal of Climate, 2016, 29, 1269-1285.	1.2	36
31	Projections of 21st Century Sierra Nevada Local Hydrologic Flow Components Using an Ensemble of General Circulation Models¹. Journal of the American Water Resources Association, 2012, 48, 1104-1125.	1.0	30
32	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
33	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
34	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
35	Hydrological Intensification Will Increase the Complexity of Water Resource Management. Earth's Future, 2022, 10, .	2.4	26
36	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

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37	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
38	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
39	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
40	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
41	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
42	Choosing an arbitrary calibration period for hydrologic models: How much does it influence water balance simulations?. Hydrological Processes, 2021, 35, e14045.	1.1	20
43	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
44	Improving Hydrological Models With the Assimilation of Crowdsourced Data. Water Resources Research, 2020, 56, e2019WR026325.	1.7	19
45	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
46	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
47	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
48	Changes in the Mechanisms Causing Rapid Drought Cessation in the Southeastern United States. Geophysical Research Letters, 2017, 44, 12,476.	1.5	15
49	A New Perspective on Terrestrial Hydrologic Intensity That Incorporates Atmospheric Water Demand. Geophysical Research Letters, 2019, 46, 8114-8124.	1.5	13
50	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
51	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
52	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
53	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
54	Approaches of soil data aggregation for hydrologic simulations. Journal of Hydrology, 2012, 464-465, 467-476.	2.3	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.	1.7	9
57	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
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.	1.5	8
59	Coupling terrestrial and aquatic thermal processes for improving stream temperature modeling at the watershed scale. Journal of Hydrology, 2021, 603, 126983.	2.3	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.	1.9	7
61	Modeling Landscape Change Effects on Stream Temperature Using the Soil and Water Assessment Tool. Water (Switzerland), 2018, 10, 1143.	1.2	7
62	Mechanisms for engaging social systems in freshwater science research. Freshwater Science, 2021, 40, 245-251.	0.9	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.	1.6	6
64	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
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.	1.0	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.	1.1	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.	1.7	1