Durelle T Scott

List of Publications by Year
in descending order

57 papers	3,923 citations	201674 27 h-index	149698 56 g-index
60 all docs	60 docs citations	60 times ranked	4953 citing authors

#	Article	IF	Citations
1	Nitrate removal by watershed-scale hyporheic stream restoration: Modeling approach to estimate effects and patterns at the stream network scale. Ecological Engineering, 2022, 175, 106498.	3.6	6
2	A spectrum of preferential flow alters solute mobility in soils. Scientific Reports, 2022, 12, 4261.	3.3	9
3	What are the relevant sources and factors affecting event mean concentrations (EMCs) of nutrients and sediment in stormwater?. Science of the Total Environment, 2022, 828, 154368.	8.0	6
4	The Cumulative Role of Impoundments in Streamflow Alteration. Journal of the American Water Resources Association, 2022, 58, 119-133.	2.4	1
5	Estimating Facilityâ€Level Monthly Water Consumption of Commercial, Industrial, Municipal, and Thermoelectric Users in Virginia. Journal of the American Water Resources Association, 2022, 58, 1358-1376.	2.4	4
6	Efficacy of a retention pond in treating stormwater nutrients and sediment. Journal of Cleaner Production, 2021, 290, 125787.	9.3	17
7	The effects of land use characteristics on urban stormwater quality and watershed pollutant loads. Science of the Total Environment, 2021, 773, 145358.	8.0	30
8	Accounting for Temporal Variability of Streamflow in Estimates of Travel Time. Frontiers in Water, 2020, 2, .	2.3	1
9	elfgen: A New Instream Flow Framework for Rapid Generation and Optimization of Flowâ€“Ecology Relations. Journal of the American Water Resources Association, 2020, 56, 949-966.	2.4	3
10	Application of a New Speciesâ€Richness Based Flow Ecology Framework for Assessing Flow Reduction Effects on Aquatic Communities. Journal of the American Water Resources Association, 2020, 56, 967-980.	2.4	3
11	Low threshold for nitrogen concentration saturation in headwaters increases regional and coastal delivery. Environmental Research Letters, 2020, 15, 044018.	5.2	9
12	Small Ponds in Headwater Catchments Are a Dominant Influence on Regional Nutrient and Sediment Budgets. Geophysical Research Letters, 2019, 46, 9669-9677.	4.0	45
13	Floodplain inundation spectrum across the United States. Nature Communications, 2019, 10, 5194.	12.8	36
14	Perspectives on Harmful Algal Blooms (HABs) and the Cyberbiosecurity of Freshwater Systems. Frontiers in Bioengineering and Biotechnology, 2019, 7, 128.	4.1	60
15	Parameter uncertainty with flow variation of the one-dimensional solute transport model for small streams using Markov chain Monte Carlo. Journal of Hydrology, 2019, 575, 1145-1154.	5.4	12
16	An evaluation of HSPF and SWMM for simulating streamflow regimes in an urban watershed. Environmental Modelling and Software, 2019, 118, 211-225.	4.5	75
17	Salmonâ€derived nutrient and organic matter fluxes from a coastal catchment in southeast Alaska. Freshwater Biology, 2019, 64, 1157-1168.	2.4	7
18	Quantifying spatiotemporal variation in headwater stream length using flow intermittency sensors. Environmental Monitoring and Assessment, 2019, 191, 226.	2.7	54

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19	Water quality characterization of storm and irrigation runoff from a container nursery. Science of the Total Environment, 2019, 667, 166-178.	8.0	16
20	How Hydrologic Connectivity Regulates Water Quality in River Corridors. Journal of the American Water Resources Association, 2019, 55, 369-381.	2.4	75
21	Storm effects on nitrogen flux and longitudinal variability in a riverâ€“reservoir system. River Research and Applications, 2019, 35, 577-586.	1.7	5
22	Water Quality Characterization of Irrigation and Storm Runoff for a Nursery. Green Energy and Technology, 2019, , 788-793.	0.6	1
23	Monitoring volumetric fluctuations in tropical lakes and reservoirs using satellite remote sensing. Lake and Reservoir Management, 2018, 34, 154-166.	1.3	18
24	Chaoborus spp. Transport CH₄ from the Sediments to the Surface Waters of a Eutrophic Reservoir, But Their Contribution to Water Column CH₄ Concentrations and Diffusive Efflux Is Minor. Environmental Science & Technology, 2018, 52, 1165-1173.	10.0	13
25	Comparing reach scale hyporheic exchange and denitrification induced by instream restoration structures and natural streambed morphology. Ecological Engineering, 2018, 115, 105-121.	3.6	23
26	Effects of large wood on floodplain connectivity in a headwater Mid-Atlantic stream. Ecological Engineering, 2018, 118, 134-142.	3.6	22
27	Thresholds of lake and reservoir connectivity in river networks control nitrogen removal. Nature Communications, 2018, 9, 2779.	12.8	68
28	Continuous proxy measurements reveal large mercury fluxes from glacial and forested watersheds in Alaska. Science of the Total Environment, 2017, 599-600, 145-155.	8.0	18
29	Effects of in-stream structures and channel flow rate variation on transient storage. Journal of Hydrology, 2017, 548, 157-169.	5.4	34
30	A cost-effective image processing approach for analyzing the ecohydrology of river corridors. Limnology and Oceanography: Methods, 2016, 14, 359-369.	2.0	11
31	Effects of inset floodplains and hyporheic exchange induced by in-stream structures on nitrate removal in a headwater stream. Ecological Engineering, 2016, 97, 452-464.	3.6	38
32	Energy and water balance response of a vegetated wetland to herbicide treatment of invasive Phragmites australis. Journal of Hydrology, 2016, 539, 290-303.	5.4	17
33	Vertical surface waterâ€“groundwater exchange processes within a headwater floodplain induced by experimental floods. Hydrological Processes, 2016, 30, 3770-3787.	2.6	13
34	Abundance and dimensions of naturally occurring macropores along stream channels and the effects of artificially constructed large macropores on transient storage. Freshwater Science, 2015, 34, 125-138.	1.8	12
35	Seasonal Variation in Floodplain Biogeochemical Processing in a Restored Headwater Stream. Environmental Science & Technology, 2015, 49, 13190-13198.	10.0	30
36	Floodplain biogeochemical processing of floodwaters in the Atchafalaya River Basin during the Mississippi River flood of 2011. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 537-546.	3.0	39

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37	Comparison of effects of inset floodplains and hyporheic exchange induced by inâ€stream structures on solute retention. Water Resources Research, 2014, 50, 6168-6190.	4.2	34
38	Perirheic mixing and biogeochemical processing in flowâ€through and backwater floodplain wetlands. Water Resources Research, 2014, 50, 7394-7405.	4.2	28
39	Stream temperature response to variable glacier coverage in coastal watersheds of Southeast Alaska. Hydrological Processes, 2014, 28, 2062-2073.	2.6	68
40	Hyporheic zone denitrification: Controls on effective reaction depth and contribution to whole-stream mass balance. Water Resources Research, 2013, 49, 6298-6316.	4.2	269
41	Temporal variation in endâ€member chemistry and its influence on runoff mixing patterns in a forested, Piedmont catchment. Water Resources Research, 2013, 49, 1828-1844.	4.2	74
42	Do transient storage parameters directly scale in longer, combined stream reaches? Reach length dependence of transient storage interpretations. Journal of Hydrology, 2013, 483, 16-25.	5.4	28
43	Hydrogen peroxide dynamics in an agricultural headwater stream: Evidence for significant nonphotochemical production. Limnology and Oceanography, 2013, 58, 2133-2144.	3.1	17
44	Comparison of Two PARAFAC Models of Dissolved Organic Matter Fluorescence for a Mid-Atlantic Forested Watershed in the USA. Journal of Ecosystems, 2013, 2013, 1-16.	0.7	49
45	Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. Nature Geoscience, 2012, 5, 198-201.	12.9	199
46	Nutrient Loss Following Phragmites australis Removal in Controlled Soil Mesocosms. Water, Air, and Soil Pollution, 2012, 223, 3333-3344.	2.4	3
47	Dissolved organic matter (DOM) concentration and quality in a forested mid-Atlantic watershed, USA. Biogeochemistry, 2012, 108, 55-76.	3.5	198
48	Fluorescence characteristics and sources of dissolved organic matter for stream water during storm events in a forested mid-Atlantic watershed. Journal of Geophysical Research, 2011, 116, .	3.3	155
49	In-stream uptake and retention of C, N and P in a supraglacial stream. Annals of Glaciology, 2010, 51, 80-86.	1.4	13
50	Hot Spots and Hot Moments in Riparian Zones: Potential for Improved Water Quality Management¹. Journal of the American Water Resources Association, 2010, 46, 278-298.	2.4	398
51	Glaciers as a source of ancient and labile organic matter to the marine environment. Nature, 2009, 462, 1044-1047.	27.8	452
52	On the role of groundwater and soil texture in the regional water balance: An investigation of the Nebraska Sand Hills, USA. Water Resources Research, 2009, 45, .	4.2	98
53	Riverine organic matter and nutrients inÂsoutheast Alaska affected by glacialÂcoverage. Nature Geoscience, 2008, 1, 583-587.	12.9	140
54	Sensitivity analysis of conservative and reactive stream transient storage models applied to field data from multiple-reach experiments. Advances in Water Resources, 2005, 28, 479-492.	3.8	47

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55	Automated calibration of a stream solute transport model: implications for interpretation of biogeochemical parameters. Journal of the North American Benthological Society, 2003, 22, 492-510.	3.1	58
56	Redox Processes Controlling Manganese Fate and Transport in a Mountain Stream. Environmental Science & Technology, 2002, 36, 453-459.	10.0	61
57	Quinone Moieties Act as Electron Acceptors in the Reduction of Humic Substances by Humics-Reducing Microorganisms. Environmental Science & Technology, 1998, 32, 2984-2989.	10.0	703