

# Durelle T Scott

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Quinone Moieties Act as Electron Acceptors in the Reduction of Humic Substances by Humics-Reducing Microorganisms. <i>Environmental Science &amp; Technology</i> , 1998, 32, 2984-2989.	10.0	703
2	Glaciers as a source of ancient and labile organic matter to the marine environment. <i>Nature</i> , 2009, 462, 1044-1047.	27.8	452
3	Hot Spots and Hot Moments in Riparian Zones: Potential for Improved Water Quality Management. <i>Journal of the American Water Resources Association</i> , 2010, 46, 278-298.	2.4	398
4	Hyporheic zone denitrification: Controls on effective reaction depth and contribution to whole-stream mass balance. <i>Water Resources Research</i> , 2013, 49, 6298-6316.	4.2	269
5	Anthropogenic aerosols as a source of ancient dissolved organic matter in glaciers. <i>Nature Geoscience</i> , 2012, 5, 198-201.	12.9	199
6	Dissolved organic matter (DOM) concentration and quality in a forested mid-Atlantic watershed, USA. <i>Biogeochemistry</i> , 2012, 108, 55-76.	3.5	198
7	Fluorescence characteristics and sources of dissolved organic matter for stream water during storm events in a forested mid-Atlantic watershed. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	155
8	Riverine organic matter and nutrients in southeast Alaska affected by glacial coverage. <i>Nature Geoscience</i> , 2008, 1, 583-587.	12.9	140
9	On the role of groundwater and soil texture in the regional water balance: An investigation of the Nebraska Sand Hills, USA. <i>Water Resources Research</i> , 2009, 45, .	4.2	98
10	An evaluation of HSPF and SWMM for simulating streamflow regimes in an urban watershed. <i>Environmental Modelling and Software</i> , 2019, 118, 211-225.	4.5	75
11	How Hydrologic Connectivity Regulates Water Quality in River Corridors. <i>Journal of the American Water Resources Association</i> , 2019, 55, 369-381.	2.4	75
12	Temporal variation in end-member chemistry and its influence on runoff mixing patterns in a forested, Piedmont catchment. <i>Water Resources Research</i> , 2013, 49, 1828-1844.	4.2	74
13	Stream temperature response to variable glacier coverage in coastal watersheds of Southeast Alaska. <i>Hydrological Processes</i> , 2014, 28, 2062-2073.	2.6	68
14	Thresholds of lake and reservoir connectivity in river networks control nitrogen removal. <i>Nature Communications</i> , 2018, 9, 2779.	12.8	68
15	Redox Processes Controlling Manganese Fate and Transport in a Mountain Stream. <i>Environmental Science &amp; Technology</i> , 2002, 36, 453-459.	10.0	61
16	Perspectives on Harmful Algal Blooms (HABs) and the Cyberbiosecurity of Freshwater Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 128.	4.1	60
17	Automated calibration of a stream solute transport model: implications for interpretation of biogeochemical parameters. <i>Journal of the North American Benthological Society</i> , 2003, 22, 492-510.	3.1	58
18	Quantifying spatiotemporal variation in headwater stream length using flow intermittency sensors. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 226.	2.7	54

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19	Comparison of Two PARAFAC Models of Dissolved Organic Matter Fluorescence for a Mid-Atlantic Forested Watershed in the USA. <i>Journal of Ecosystems</i> , 2013, 2013, 1-16.	0.7	49
20	Sensitivity analysis of conservative and reactive stream transient storage models applied to field data from multiple-reach experiments. <i>Advances in Water Resources</i> , 2005, 28, 479-492.	3.8	47
21	Small Ponds in Headwater Catchments Are a Dominant Influence on Regional Nutrient and Sediment Budgets. <i>Geophysical Research Letters</i> , 2019, 46, 9669-9677.	4.0	45
22	Floodplain biogeochemical processing of floodwaters in the Atchafalaya River Basin during the Mississippi River flood of 2011. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2014, 119, 537-546.	3.0	39
23	Effects of inset floodplains and hyporheic exchange induced by in-stream structures on nitrate removal in a headwater stream. <i>Ecological Engineering</i> , 2016, 97, 452-464.	3.6	38
24	Floodplain inundation spectrum across the United States. <i>Nature Communications</i> , 2019, 10, 5194.	12.8	36
25	Comparison of effects of inset floodplains and hyporheic exchange induced by in-stream structures on solute retention. <i>Water Resources Research</i> , 2014, 50, 6168-6190.	4.2	34
26	Effects of in-stream structures and channel flow rate variation on transient storage. <i>Journal of Hydrology</i> , 2017, 548, 157-169.	5.4	34
27	Seasonal Variation in Floodplain Biogeochemical Processing in a Restored Headwater Stream. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13190-13198.	10.0	30
28	The effects of land use characteristics on urban stormwater quality and watershed pollutant loads. <i>Science of the Total Environment</i> , 2021, 773, 145358.	8.0	30
29	Do transient storage parameters directly scale in longer, combined stream reaches? Reach length dependence of transient storage interpretations. <i>Journal of Hydrology</i> , 2013, 483, 16-25.	5.4	28
30	Perirheic mixing and biogeochemical processing in flow-through and backwater floodplain wetlands. <i>Water Resources Research</i> , 2014, 50, 7394-7405.	4.2	28
31	Comparing reach scale hyporheic exchange and denitrification induced by instream restoration structures and natural streambed morphology. <i>Ecological Engineering</i> , 2018, 115, 105-121.	3.6	23
32	Effects of large wood on floodplain connectivity in a headwater Mid-Atlantic stream. <i>Ecological Engineering</i> , 2018, 118, 134-142.	3.6	22
33	Continuous proxy measurements reveal large mercury fluxes from glacial and forested watersheds in Alaska. <i>Science of the Total Environment</i> , 2017, 599-600, 145-155.	8.0	18
34	Monitoring volumetric fluctuations in tropical lakes and reservoirs using satellite remote sensing. <i>Lake and Reservoir Management</i> , 2018, 34, 154-166.	1.3	18
35	Hydrogen peroxide dynamics in an agricultural headwater stream: Evidence for significant nonphotochemical production. <i>Limnology and Oceanography</i> , 2013, 58, 2133-2144.	3.1	17
36	Energy and water balance response of a vegetated wetland to herbicide treatment of invasive <i>Phragmites australis</i> . <i>Journal of Hydrology</i> , 2016, 539, 290-303.	5.4	17

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37	Efficacy of a retention pond in treating stormwater nutrients and sediment. <i>Journal of Cleaner Production</i> , 2021, 290, 125787.	9.3	17
38	Water quality characterization of storm and irrigation runoff from a container nursery. <i>Science of the Total Environment</i> , 2019, 667, 166-178.	8.0	16
39	In-stream uptake and retention of C, N and P in a supraglacial stream. <i>Annals of Glaciology</i> , 2010, 51, 80-86.	1.4	13
40	Vertical surface water-groundwater exchange processes within a headwater floodplain induced by experimental floods. <i>Hydrological Processes</i> , 2016, 30, 3770-3787.	2.6	13
41	<i>Chaoborus</i> spp. Transport CH <sub>4</sub> from the Sediments to the Surface Waters of a Eutrophic Reservoir, But Their Contribution to Water Column CH <sub>4</sub> Concentrations and Diffusive Efflux Is Minor. <i>Environmental Science &amp; Technology</i> , 2018, 52, 1165-1173.	10.0	13
42	Abundance and dimensions of naturally occurring macropores along stream channels and the effects of artificially constructed large macropores on transient storage. <i>Freshwater Science</i> , 2015, 34, 125-138.	1.8	12
43	Parameter uncertainty with flow variation of the one-dimensional solute transport model for small streams using Markov chain Monte Carlo. <i>Journal of Hydrology</i> , 2019, 575, 1145-1154.	5.4	12
44	A cost-effective image processing approach for analyzing the ecohydrology of river corridors. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 359-369.	2.0	11
45	Low threshold for nitrogen concentration saturation in headwaters increases regional and coastal delivery. <i>Environmental Research Letters</i> , 2020, 15, 044018.	5.2	9
46	A spectrum of preferential flow alters solute mobility in soils. <i>Scientific Reports</i> , 2022, 12, 4261.	3.3	9
47	Salmon-derived nutrient and organic matter fluxes from a coastal catchment in southeast Alaska. <i>Freshwater Biology</i> , 2019, 64, 1157-1168.	2.4	7
48	Nitrate removal by watershed-scale hyporheic stream restoration: Modeling approach to estimate effects and patterns at the stream network scale. <i>Ecological Engineering</i> , 2022, 175, 106498.	3.6	6
49	What are the relevant sources and factors affecting event mean concentrations (EMCs) of nutrients and sediment in stormwater?. <i>Science of the Total Environment</i> , 2022, 828, 154368.	8.0	6
50	Storm effects on nitrogen flux and longitudinal variability in a river-reservoir system. <i>River Research and Applications</i> , 2019, 35, 577-586.	1.7	5
51	Estimating Facility-Level Monthly Water Consumption of Commercial, Industrial, Municipal, and Thermoelectric Users in Virginia. <i>Journal of the American Water Resources Association</i> , 2022, 58, 1358-1376.	2.4	4
52	Nutrient Loss Following <i>Phragmites australis</i> Removal in Controlled Soil Mesocosms. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3333-3344.	2.4	3
53	elfgen: A New Instream Flow Framework for Rapid Generation and Optimization of Flow-Ecology Relations. <i>Journal of the American Water Resources Association</i> , 2020, 56, 949-966.	2.4	3
54	Application of a New Species-Richness Based Flow Ecology Framework for Assessing Flow Reduction Effects on Aquatic Communities. <i>Journal of the American Water Resources Association</i> , 2020, 56, 967-980.	2.4	3

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55	Accounting for Temporal Variability of Streamflow in Estimates of Travel Time. <i>Frontiers in Water</i> , 2020, 2, .	2.3	1
56	Water Quality Characterization of Irrigation and Storm Runoff for a Nursery. <i>Green Energy and Technology</i> , 2019, , 788-793.	0.6	1
57	The Cumulative Role of Impoundments in Streamflow Alteration. <i>Journal of the American Water Resources Association</i> , 2022, 58, 119-133.	2.4	1