R Allen Curry

List of Publications by Year in Descending Order

110 papers	2,160 citations	23 h-index	42 g-index
118 ext. papers	2,509 ext. citations	2.6 avg, IF	4.91 L-index

#	Paper	IF	Citations
110	The salmon-peloton: Hydraulic habitat shifts of adult Atlantic salmon (Salmo salar) due to behavioural thermoregulation. *River Research and Applications*, **2022**, 38, 107	2.3	3
109	Mercury concentrations and stable isotopes (N and C) in fish muscle indicate human impacts in tropical coastal lagoons.. *Marine Pollution Bulletin*, **2022**, 176, 113454	6.7	0
108	A High-Resolution, Random Forest Approach to Mapping Depth-to-Bedrock across Shallow Overburden and Post-Glacial Terrain. *Remote Sensing*, **2021**, 13, 4210	5	2
107	Environment-driven reprogramming of gamete DNA methylation occurs during maturation and is transmitted intergenerationally in Atlantic Salmon. *G3: Genes, Genomes, Genetics*, **2021**, 11,	3.2	2
106	Salmonid thermal habitat contraction in a hydrogeologically complex setting. *Ecosphere*, **2021**, 12, e03797	3.1	2
105	Overwintering and migration behaviour of post-spawned Atlantic salmon Salmo salar in a large hydropower-regulated river and reservoir. *Journal of Fish Biology*, **2021**, 99, 856-874	1.9	
104	Atlantic Salmon Upstream Migration Delay in a Large Hydropower Reservoir. *North American Journal of Fisheries Management*, **2021**, 41, 158-175	1.1	4
103	Catchment-scale, high-resolution, hydraulic models and habitat maps a salmonids perspective. *Journal of Ecohydraulics*, **2021**, 6, 53-68	1.3	8
102	Effects of Topographic Resolution and Geologic Setting on Spatial Statistical River Temperature Models. *Water Resources Research*, **2020**, 56, e2020WR028122	5.4	10
101	Diel patterns in spatial distribution of fish assemblages in lentic and lotic habitat in a regulated river. *River Research and Applications*, **2020**, 36, 1014-1023	2.3	1
100	Mesohabitat modelling in fish ecology: A global synthesis. *Fish and Fisheries*, **2020**, 21, 927-939	6	8
99	Migration of Atlantic salmon (Salmo salar) smolts in a large hydropower reservoir. *Canadian Journal of Fisheries and Aquatic Sciences*, **2020**, 77, 1463-1476	2.4	2
98	Linking fish assemblages to hydro-morphological units in a large regulated river. *Ecohydrology*, **2020**, 13, e2233	2.5	5
97	Characterizing physical habitat preferences and thermal refuge occupancy of brook trout (Salvelinus fontinalis) and Atlantic salmon (Salmo salar) at high river temperatures. *River Research and Applications*, **2020**, 36, 769-783	2.3	14
96	Space invaders: Searching for invasive Smallmouth Bass () in a renowned Atlantic Salmon () river. *Ecology and Evolution*, **2020**, 10, 2588-2596	2.8	6
95	Development of Active Numerating Side-scan for a High-Density Overwintering Location for Endemic Shortnose Sturgeon (Acipenser brevirostrum) in the Saint John River, New Brunswick. *Diversity*, **2020**, 12, 23	2.5	9
94	Complementary responses of stream fish and benthic macroinvertebrate assemblages to environmental drivers in a shale-gas development area. *Facets*, **2020**, 5, 200-227	2.3	2

93	Interannual variation in spawning success of striped bass (Morone saxatilis) in the Saint John River, New Brunswick. *River Research and Applications*, **2020**, 36, 13-24	2.3	3
92	Seasonal and diel patterns in activity and habitat use by brook trout (Salvelinus fontinalis) in a small Newfoundland lake. *Environmental Biology of Fishes*, **2020**, 103, 31-47	1.6	5
91	Key Questions for Next-Generation Biomonitoring. *Frontiers in Environmental Science*, **2020**, 7,	4.8	30
90	Large dam renewals and removals Part 1: Building a science framework to support a decision-making process. *River Research and Applications*, **2020**, 36, 1460-1471	2.3	3
89	Genomic population structure of Striped Bass () from the Gulf of St. Lawrence to Cape Fear River. *Evolutionary Applications*, **2020**, 13, 1468-1486	4.8	7
88	Riparian and in-channel habitat properties linked to dragonfly emergence. *Scientific Reports*, **2020**, 10, 17665	4.9	3
87	Establishing baseline biological conditions and monitoring metrics for stream benthic macroinvertebrates and fish in an area of potential shale gas development. *Canadian Journal of Fisheries and Aquatic Sciences*, **2019**, 76, 1480-1494	2.4	1
86	Network-Based Biomonitoring: Exploring Freshwater Food Webs With Stable Isotope Analysis and DNA Metabarcoding. *Frontiers in Ecology and Evolution*, **2019**, 7,	3.7	14
85	Seasonal differences in plankton community structure are more pronounced than spatial patterns in the headpond and downstream portions of a large impounded river. *Inland Waters*, **2019**, 9, 348-361	2.4	1
84	Freshwater mussel abundance and species composition downstream of a large hydroelectric generating station. *Hydrobiologia*, **2019**, 836, 207-218	2.4	4
83	Left out in the cold: the understudied overwintering ecology of striped bass in Canada. *Environmental Biology of Fishes*, **2019**, 102, 499-518	1.6	3
82	The influence of landscape characteristics on the spatial variability of river temperatures. *Catena*, **2019**, 177, 70-83	5.8	18
81	Ice cover exists: A quick method to delineate groundwater inputs in running waters for cold and temperate regions. *Hydrological Processes*, **2019**, 33, 3297-3309	3.3	8
80	Accuracy and Precision of Low-Cost Echosounder and Automated Data Processing Software for Habitat Mapping in a Large River. *Diversity*, **2019**, 11, 116	2.5	9
79	Looking for Striped Bass in Atlantic Canada: The Reconciliation of Local, Scientific, and Historical Knowledge. *Northeastern Naturalist*, **2019**, 26, 1	0.5	7
78	Detection Range of Acoustic Receivers in a Large Hydropower Reservoir. *Fishes*, **2019**, 4, 60	2.5	4
77	Consumption of Atlantic Salmon Smolt by Striped Bass: A Review of the Predator Prey Encounter and Implications for the Design of Effective Sampling Strategies. *Fishes*, **2019**, 4, 50	2.5	1
76	Arctic biodiversity of stream macroinvertebrates declines in response to latitudinal change in the abiotic template. *Freshwater Science*, **2019**, 38, 465-479	2	13

75	First record of Eurasian Water-milfoil, Myriophyllum spicatum, for the Saint John River, New Brunswick. *Canadian Field-Naturalist*, **2019**, 132, 231-237	0.8	1
74	Chromosomal fusion and life history-associated genomic variation contribute to within-river local adaptation of Atlantic salmon. *Molecular Ecology*, **2019**, 28, 1439-1459	5.7	24
73	Mercury bioaccumulation in aquatic biota along a salinity gradient in the Saint John River estuary. *Journal of Environmental Sciences*, **2018**, 68, 41-54	6.4	11
72	Seasonal movements of striped bass Morone saxatilis in a large tidal and hydropower regulated river. *Environmental Biology of Fishes*, **2018**, 101, 1549-1558	1.6	9
71	The biology and ecology of slimy sculpin: A recipe for effective environmental monitoring. *Facets*, **2018**, 3, 103-127	2.3	9
70	Evidence of a Genetically Distinct Population of Striped Bass within the Saint John River, New Brunswick, Canada. *North American Journal of Fisheries Management*, **2018**, 38, 1339-1349	1.1	9
69	Impact of Future Climate Change on Water Temperature and Thermal Habitat for Keystone Fishes in the Lower Saint John River, Canada. *Water Resources Management*, **2018**, 32, 4853-4878	3.7	19
68	Diet of Striped Bass and Muskellunge Downstream of a Large Hydroelectric Dam: A Preliminary Investigation into Suspected Atlantic Salmon Smolt Predation. *North American Journal of Fisheries Management*, **2018**, 38, 734-746	1.1	13
67	Automating drainage direction and physiographic inputs to the CEQUEAU hydrological model: sensitivity testing on the lower Saint John River watershed, Canada. *Journal of Hydroinformatics*, **2017**, 19, 469-492	2.6	6
66	Population Characteristics of Adult Atlantic Sturgeon Captured by the Commercial Fishery in the Saint John River Estuary, New Brunswick. *Transactions of the American Fisheries Society*, **2017**, 146, 318-330	1.7	11
65	Comparative analysis of diet composition and its relation to morphological characteristics in juvenile fish of three lutjanid species in a Mexican Pacific coastal lagoon. *Neotropical Ichthyology*, **2017**, 15,	1.3	6
64	The Misunderstood Striped Bass of the Saint John River, New Brunswick: Past, Present, and Future. *North American Journal of Fisheries Management*, **2017**, 37, 235-254	1.1	15
63	Assessing the outcomes of stocking hatchery-reared juveniles in the presence of wild Atlantic salmon. *Environmental Biology of Fishes*, **2017**, 100, 877-887	1.6	3
62	Fishes as indicators of untreated sewage contamination in a Mexican coastal lagoon. *Marine Pollution Bulletin*, **2016**, 113, 100-109	6.7	10
61	A Comparison of Mercury Biomagnification through Lacustrine Food Webs Supporting Brook Trout (Salvelinus fontinalis) and Other Salmonid Fishes. *Frontiers in Environmental Science*, **2016**, 4,	4.8	9
60	Preserving, augmenting, and creating cold-water thermal refugia in rivers: concepts derived from research on the Miramichi River, New Brunswick (Canada). *Ecohydrology*, **2015**, 8, 1095-1108	2.5	94
59	Fin tissues as surrogates of white muscle when assessing carbon and nitrogen stable isotope levels for Arctic and brook char. *Environmental Biology of Fishes*, **2014**, 97, 627-633	1.6	8
58	Principles for ensuring healthy and productive freshwater ecosystems that support sustainable fisheries. *Environmental Reviews*, **2014**, 22, 110-134	4.5	49

57	Responses of Low Arctic Stream Benthic Macroinvertebrate Communities to Environmental Drivers at Nested Spatial Scales. *Arctic, Antarctic, and Alpine Research*, **2013**, 45, 538-551	1.8	7
56	Linking landscape variables to cold water refugia in rivers. *Journal of Environmental Management*, **2013**, 118, 170-6	7.9	34
55	The contribution of riffles and riverine wetlands to benthic macroinvertebrate biodiversity. *Biodiversity and Conservation*, **2012**, 21, 895-913	3.4	6
54	Ecology and Status of the Redbreast Sunfish,Lepomis auritus, in Yoho Lake, New Brunswick. *Northeastern Naturalist*, **2012**, 19, 653-664	0.5	0
53	Increased mercury and body size and changes in trophic structure of Gambusia puncticulata (Poeciliidae) along the Almendares River, Cuba. *Archives of Environmental Contamination and Toxicology*, **2012**, 63, 523-33	3.2	5
52	SELECTING HYDROLOGIC INDICES FOR THE PRAIRIE PROVINCES. *River Research and Applications*, **2012**, 28, 1595-1608	2.3	4
51	STABLE ISOTOPE ANALYSIS REVEALS ANTHROPOGENIC EFFECTS ON FISH ASSEMBLAGES IN A TEMPERATE RESERVOIR. *River Research and Applications*, **2012**, 28, 1804-1819	2.3	7
50	Stable isotopic assessment of site fidelity of mummichogs, Fundulus heteroclitus, exposed to multiple anthropogenic inputs. *Environmental Biology of Fishes*, **2012**, 94, 695-706	1.6	9
49	Testing the Severity of Ill Effects Model for Predicting Fish Abundance and Condition. *North American Journal of Fisheries Management*, **2011**, 31, 419-426	1.1	1
48	Ontogenetic divergence of growth among rainbow smelt morphotypes. *Environmental Biology of Fishes*, **2011**, 92, 217-227	1.6	2
47	Quantifying trends in indicator hydroecological variables for regime-based groups of Canadian rivers. *Hydrological Processes*, **2011**, 25, n/a-n/a	3.3	17
46	Increasing mercury in yellow perch at a hotspot in Atlantic Canada, Kejimkujik National Park. *Environmental Science & Technology*, **2010**, 44, 9176-81	10.3	43
45	Spatial and Temporal Movements of White Sucker: Implications for Use as a Sentinel Species. *Transactions of the American Fisheries Society*, **2010**, 139, 1818-1827	1.7	15
44	The origins and persistence of anadromy in brook charr. *Reviews in Fish Biology and Fisheries*, **2010**, 20, 557-570	6	21
43	Mercury biomagnification in the food webs of acidic lakes in Kejimkujik National Park and National Historic Site, Nova Scotia. *Canadian Journal of Fisheries and Aquatic Sciences*, **2009**, 66, 1532-1545	2.4	62
42	Identifying Canadian freshwater fishes through DNA barcodes. *PLoS ONE*, **2008**, 3, e2490	3.7	395
41	Maternal transfer of carbon and nitrogen to progeny of sea-run and resident brook trout (Salvelinus fontinalis). *Canadian Journal of Fisheries and Aquatic Sciences*, **2008**, 65, 2201-2210	2.4	26
40	Spatial Variation in Stable Isotopes (δ13C and δ15N) in Marine Fish along the Coast of Havana City: Evidence of Human Impacts from Harbor and River Waters. *Journal of Coastal Research*, **2008**, 245, 1281-1288	0.6	10

39	First summer growth predetermined in anadromous and resident brook charr. *Journal of Fish Biology*, **2007**, 70, 334-346	1.9	15
38	Late glacial impacts on dispersal and colonization of Atlantic Canada and Maine by freshwater fishes. *Quaternary Research*, **2007**, 67, 225-233	1.9	20
37	Using movements and diet analyses to assess effects of introduced muskellunge (Esox masquinongy) on Atlantic salmon (Salmo salar) in the Saint John River, New Brunswick. *Environmental Biology of Fishes*, **2007**, 79, 49-60	1.6	11
36	Using movements and diet analyses to assess effects of introduced muskellunge (Esox masquinongy) on Atlantic salmon (Salmo salar) in the Saint John River, New Brunswick **2007**, 49-60		1
35	Evaluation of Techniques for the Marking of Mummichogs with Emphasis on Visible Implant Elastomer. *North American Journal of Fisheries Management*, **2006**, 26, 1003-1010	1.1	11
34	Assessing anadromy of brook char (Salvelinus fontinalis) using scale microchemistry. *Canadian Journal of Fisheries and Aquatic Sciences*, **2006**, 63, 995-1006	2.4	14
33	Unique perspectives on the influence of size and age on consumer δ15N from a rainbow smelt complex. *Journal of Fish Biology*, **2006**, 69, 215-223	1.9	5
32	Temporal and Spatial Habitats of Anadromous Brook Charr in the Laval River and its Estuary. *Environmental Biology of Fishes*, **2006**, 76, 361	1.6	18
31	A nonlethal approach using strontium in scales to distinguish periods of marine and freshwater residency of anadromous species. *Canadian Journal of Fisheries and Aquatic Sciences*, **2005**, 62, 2443-2449	2.4	9
30	High fidelity: isotopic relationship between stream invertebrates and their gut contents. *Journal of the North American Benthological Society*, **2005**, 24, 290-299		49
29	Effects of Size Structure on Trophic Interactions between Age-0 Smallmouth Bass and Juvenile Anadromous Alewives. *Transactions of the American Fisheries Society*, **2005**, 134, 356-368	1.7	5
28	Impacts of nonpoint inputs from potato farming on populations of slimy sculpin (Cottus cognatus). *Environmental Toxicology and Chemistry*, **2005**, 24, 2291-8	3.8	12
27	Assessing the reproductive contributions of sympatric anadromous and freshwater-resident brook trout. *Journal of Fish Biology*, **2005**, 66, 741-757	1.9	18
26	Winter survival of age-0 smallmouth bass, Micropterus dolomieu, in north eastern lakes. *Environmental Biology of Fishes*, **2005**, 72, 111-122	1.6	10
25	Site Fidelity of Mummichogs (Fundulus heteroclitus) in an Atlantic Canadian Estuary. *Water Quality Research Journal of Canada*, **2005**, 40, 288-298	1.7	40
24	Performance of White Sucker Populations along the Saint John River Main Stem, New Brunswick, Canada: An Example of Effects-Based Cumulative Effects Assessment. *Water Quality Research Journal of Canada*, **2005**, 40, 361-373	1.7	7
23	Genetic Population Structure of Brook Trout Inhabiting a Large River Watershed. *Transactions of the American Fisheries Society*, **2004**, 133, 1138-1149	1.7	22
22	Population-level responses to sediment during early life inbrook trout. *Journal of the North American Benthological Society*, **2004**, 23, 140-150		43

21	The Rainbow Smelt, Osmerus mordax, Complex of Lake Utopia: Threatened or Misunderstood?. *Environmental Biology of Fishes*, **2004**, 69, 153-166	1.6	13
20	Effects of Recreational Fishing on the Population Dynamics of Lake-Dwelling Brook Trout. *North American Journal of Fisheries Management*, **2003**, 23, 35-47	1.1	10
19	Examination of the responses of slimy sculpin (Cottus cognatus) and white sucker (Catostomus commersoni) collected on the Saint John River (Canada) downstream of pulp mill, paper mill, and sewage discharges. *Environmental Toxicology and Chemistry*, **2003**, 22, 2898-907	3.8	39
18	Non-Lethal Sampling Methods for Assessing Environmental Impacts Using a Small-Bodied Sentinel Fish Species. *Water Quality Research Journal of Canada*, **2002**, 37, 195-211	1.7	37
17	The thermal regimes of brook trout incubation habitats and evidence of changes during forestry operations. *Canadian Journal of Forest Research*, **2002**, 32, 1200-1207	1.9	26
16	Spatial and Temporal Movements of a Riverine Brook Trout Population. *Transactions of the American Fisheries Society*, **2002**, 131, 551-560	1.7	50
15	Use of Small Streams by Young Brook Trout Spawned in a Lake. *Transactions of the American Fisheries Society*, **1997**, 126, 77-83	1.7	38
14	Hydrogeology of brook trout (Salvelinusfontinalis) spawning and incubation habitats: implications for forestry and land use development. *Canadian Journal of Forest Research*, **1996**, 26, 767-772	1.9	20
13	Groundwater and the incubation and emergence of brook trout (Salvelinus fontinalis). *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 1741-1749	2.4	71
12	Lessons to be Learned from Attempts to Restore Salvelinus Species Other Than S. namaycush : a Review of Reproductive Behavior. *Journal of Great Lakes Research*, **1995**, 21, 54-64	3	9
11	Groundwater and the selection of spawning sites by brook trout (Salvelinus fontinalis). *Canadian Journal of Fisheries and Aquatic Sciences*, **1995**, 52, 1733-1740	2.4	110
10	Effects of river flow fluctuations on groundwater discharge through brook trout, Salvelinus fontinalis, spawning and incubation habitats. *Hydrobiologia*, **1994**, 277, 121-134	2.4	37
9	Growth and food of young-of-the-year brook charr,Salvelinus fontinalis, in lake and creek environments. *Environmental Biology of Fishes*, **1993**, 37, 131-138	1.6	18
8	Brook trout (Salvelinus fontinalis) embryo habitat and timing of alevin emergence in a lake and a stream. *Canadian Journal of Zoology*, **1992**, 70, 423-427	1.5	32
7	Emergence chronology of brook charr,Salvenus fontinalis, alevins in an acidic stream. *Environmental Biology of Fishes*, **1991**, 31, 25-31	1.6	7
6	Seasonal Energy Budget of Brook Trout in Streams: Implications of a Possible Deficit in Early Winter. *Transactions of the American Fisheries Society*, **1987**, 116, 817-828	1.7	66
5	Environment-driven reprogramming of gamete DNA methylation occurs during maturation and is transmitted intergenerationally in salmon		1
4	Fish habitat modelling in large rivers: combining expert opinion and hydrodynamic modelling to inform river management. *Journal of Ecohydraulics*,1-19	1.3	5

3	Quantitative modelling of fish habitat in a large regulated river in a changing climate. *Ecohydrology*,e2318	2.5	0
2	Remote sensing framework details riverscape connectivity fragmentation and fish passability in a forested landscape. *Journal of Ecohydraulics*,1-12	1.3	0
1	The waterscape continuum concept: Rethinking boundaries in ecosystems. *Wiley Interdisciplinary Reviews: Water*,	5.7	