

# Chris C Wilson

## List of Publications by Year in descending order

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125  
papers

4,165  
citations

172457  
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138484  
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129  
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129  
docs citations

129  
times ranked

3761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative phylogeography of Nearctic and Palearctic fishes. <i>Molecular Ecology</i> , 1998, 7, 431-452.	3.9	751
2	Reporting the limits of detection and quantification for environmental DNA assays. <i>Environmental DNA</i> , 2020, 2, 271-282.	5.8	269
3	HOLARCTIC PHYLOGEOGRAPHY OF ARCTIC CHARR ( <i>SALVELINUS ALPINUS</i> L.) INFERRED FROM MITOCHONDRIAL DNA SEQUENCES. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 573.	2.3	225
4	Introgression and fixation of Arctic char ( <i>Salvelinus alpinus</i> ) mitochondrial genome in an allopatric population of brook trout ( <i>Salvelinus fontinalis</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995, 52, 179-185.	1.4	191
5	Demography and ecological impacts of the invading mollusc <i>Dreissena polymorpha</i> . <i>Canadian Journal of Zoology</i> , 1991, 69, 405-409.	1.0	156
6	The ghost of hybrids past: fixation of arctic charr ( <i>Salvelinus alpinus</i> ) mitochondrial DNA in an introgressed population of lake trout ( <i>S. namaycush</i> ). <i>Molecular Ecology</i> , 1998, 7, 127-132.	3.9	147
7	Development and Validation of Environmental DNA (eDNA) Markers for Detection of Freshwater Turtles. <i>PLoS ONE</i> , 2015, 10, e0130965.	2.5	111
8	ACCELERATED MOLECULAR EVOLUTION IN HALOPHILIC CRUSTACEANS. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 909-926.	2.3	101
9	Intraspecific Variation in Thermal Tolerance and Acclimation Capacity in Brook Trout ( <i>Salvelinus</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> <i>Zoology</i> , 2014, 87, 15-29.	1.5	101
10	Development of species-specific environmental DNA (eDNA) markers for invasive aquatic plants. <i>Aquatic Botany</i> , 2015, 122, 27-31.	1.6	68
11	Breeding success of male brook trout ( <i>Salvelinus fontinalis</i> ) in the wild. <i>Molecular Ecology</i> , 2003, 12, 2417-2428.	3.9	63
12	Ovarian fluid enhances sperm velocity based on relatedness in lake trout, <i>Salvelinus namaycush</i> . <i>Theriogenology</i> , 2012, 78, 2105-2109.e1.	2.1	59
13	Environmental DNA (eDNA) detection and habitat occupancy of threatened spotted gar ( <i>Lepisosteus</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> <i>Zoology</i> , 2014, 87, 15-29.	2.0	55
14	PROVINCIALISM IN PLANKTON: ENDEMISM AND ALLOPATRIC SPECIATION IN AUSTRALIAN <i>DAPHNIA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 1333-1349.	2.3	53
15	Comparative analysis of riverscape genetic structure in rare, threatened and common freshwater mussels. <i>Conservation Genetics</i> , 2015, 16, 845-857.	1.5	51
16	The Maintenance of Taxon Diversity in an Asexual Assemblage: An Experimental Analysis. <i>Ecology</i> , 1992, 73, 1462-1472.	3.2	50
17	Population structure and genetic diversity of black redbreast ( <i>Moxostoma duquesnei</i> ) in a highly fragmented watershed. <i>Conservation Genetics</i> , 2008, 9, 531-546.	1.5	46
18	The systematics of Australian <i>Daphnia</i> and <i>Daphniopsis</i> (Crustacea: Cladocera): a shared phylogenetic history transformed by habitat-specific rates of evolution. <i>Biological Journal of the Linnean Society</i> , 2006, 89, 469-488.	1.6	41

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19	Validation of environmental DNA (eDNA) as a detection tool for atâ€risk freshwater pearly mussel species (Bivalvia: Unionidae). Aquatic Conservation: Marine and Freshwater Ecosystems, 2018, 28, 545-558.	2.0	41
20	Natural Hybridization between Arctic Char (<i>Salvelinus alpinus</i>) and Lake Trout (<i>S</i>.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2652-2658.	1.4	39
21	Phylogeography and postglacial dispersal of arctic charr <i>Salvelinus alpinus</i> in North America. Molecular Ecology, 1996, 5, 187-197.	3.9	39
22	Tracking ghosts: combined electrofishing and environmental DNA surveillance efforts for Asian carps in Ontario waters of Lake Erie. Management of Biological Invasions, 2014, 5, 225-231.	1.2	39
23	Mitochondrial DNA identification of game and harvested freshwater fish species. Forensic Science International, 2007, 166, 68-76.	2.2	37
24	Genetic Assessment of Walleye ( <i>Sander vitreus</i> ) Restoration Efforts and Options in Nipigon Bay and Black Bay, Lake Superior. Journal of Great Lakes Research, 2007, 33, 133-144.	1.9	35
25	Genome evolution in the fish family salmonidae: generation of a brook charr genetic map and comparisons among charrs (Arctic charr and brook charr) with rainbow trout. BMC Genetics, 2011, 12, 68.	2.7	34
26	Testing congruency of geographic and genetic population structure for a freshwater mussel (Bivalvia: Unionoida) and its host fish. Biological Journal of the Linnean Society, 2011, 102, 669-685.	1.6	34
27	Genetic assessment of lake sturgeon ( <i>Acipenser fulvescens</i> ) population structure in the Ottawa River. Environmental Biology of Fishes, 2011, 90, 183-195.	1.0	33
28	The fuzzy structure of populations. Canadian Journal of Zoology, 2002, 80, 2235-2241.	1.0	32
29	Walleye in the Grand River, Ontario: an Overview of Rehabilitation Efforts, Their Effectiveness, and Implications for Eastern Lake Erie Fisheries. Journal of Great Lakes Research, 2007, 33, 103-117.	1.9	31
30	Influence of dams and habitat condition on the distribution of redhorse ( <i>Moxostoma</i> ) species in the Grand River watershed, Ontario. Environmental Biology of Fishes, 2007, 81, 111-125.	1.0	30
31	Does humanâ€induced hybridization have longâ€term genetic effects? Empirical testing with domesticated, wild and hybridized fish populations. Evolutionary Applications, 2014, 7, 1180-1191.	3.1	30
32	Ice age fish in a warming world: minimal variation in thermal acclimation capacity among lake trout ( <i>Salvelinus namaycush</i> ) populations. , 2014, 2, cou025-cou025.		29
33	Ovarian fluid influences sperm performance in lake trout, <i>Salvelinus namaycush</i> . Reproductive Biology, 2013, 13, 172-175.	1.9	28
34	Recognizing false positives: synthetic oligonucleotide controls for environmental <scp>DNA</scp> surveillance. Methods in Ecology and Evolution, 2016, 7, 23-29.	5.2	28
35	Competitive interactions among multiple nonâ€native salmonids and two populations of <scp>A</scp>tlantic salmon. Ecology of Freshwater Fish, 2015, 24, 44-55.	1.4	27
36	Phylogeography and postglacial dispersal of lake trout (&lt;i>Salvelinus namaycush&lt;/i>) in North America. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1010-1024.	1.4	27

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37	The effect of competition among three salmonids on dominance and growth during the juvenile life stage. <i>Ecology of Freshwater Fish</i> , 2012, 21, 533-540.	1.4	26
38	Anthropogenic and habitat correlates of hybridization between hatchery and wild brook trout. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 688-697.	1.4	26
39	Genetic Population Structure among Source Populations for Coaster Brook Trout in Nipigon Bay, Lake Superior. <i>Transactions of the American Fisheries Society</i> , 2008, 137, 1213-1228.	1.4	25
40	Variable Introgression from Supplemental Stocking in Southern Ontario Populations of Lake Trout. <i>Transactions of the American Fisheries Society</i> , 2009, 138, 699-719.	1.4	25
41	Conservation Genetics of Inland Lake Trout in the Upper Mississippi River Basin: Stocked or Native Ancestry?. <i>Transactions of the American Fisheries Society</i> , 2005, 134, 789-802.	1.4	24
42	Conservation Genetics of Lake Superior Brook Trout: Issues, Questions, and Directions. <i>North American Journal of Fisheries Management</i> , 2008, 28, 1307-1320.	1.0	24
43	Combining species-specific COI primers with environmental DNA analysis for targeted detection of rare freshwater species. <i>Conservation Genetics Resources</i> , 2013, 5, 971-975.	0.8	24
44	Genetic and maternal effects on juvenile survival and fitness-related traits in three populations of Atlantic salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 751-758.	1.4	23
45	Genetic architecture of survival and fitness-related traits in two populations of Atlantic salmon. <i>Heredity</i> , 2013, 111, 513-519.	2.6	22
46	Acclimation capacity of the cardiac HSP70 and HSP90 response to thermal stress in lake trout ( <i>Salvelinus namaycush</i> ), a stenothermal ice-age relict. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2018, 224, 53-60.	1.6	22
47	Parental Investment and Sex Allocation in a Viviparous Onychophoran. <i>Oikos</i> , 1989, 56, 224.	2.7	21
48	No evidence for niche segregation in a North American Cattail ( <i>Typha</i> ) species complex. <i>Ecology and Evolution</i> , 2012, 2, 952-961.	1.9	21
49	Effects of feeding high dietary thiaminase to sub-adult Atlantic salmon from three populations. <i>Journal of Great Lakes Research</i> , 2015, 41, 898-906.	1.9	21
50	Relationship between cardiac performance and environment across populations of Atlantic salmon ( <i>Salmo salar</i> ): a common garden experiment implicates local adaptation. <i>Evolutionary Ecology</i> , 2016, 30, 877-886.	1.2	21
51	Early Life History Variation among Hatchery and Wild Origin Lake Trout Reared in a Hatchery Environment. <i>Transactions of the American Fisheries Society</i> , 2010, 139, 21-28.	1.4	20
52	Variation in Acute Thermal Tolerance within and among Hatchery Strains of Brook Trout. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 1230-1235.	1.4	20
53	Intraspecific Differences in Thermal Biology among Inland Lake Trout Populations. <i>Transactions of the American Fisheries Society</i> , 2013, 142, 756-766.	1.4	19
54	Establishing detection thresholds for environmental DNA using receiver operator characteristic (ROC) curves. <i>Conservation Genetics Resources</i> , 2018, 10, 555-562.	0.8	19

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55	Detection of spatiotemporal variation in ranavirus distribution using eDNA. Environmental DNA, 2020, 2, 210-220.	5.8	19
56	Mixed-stock analysis using Rapture genotyping to evaluate stock-specific exploitation of a walleye population despite weak genetic structure. Evolutionary Applications, 2021, 14, 1403-1420.	3.1	19
57	A Sex-linked Microsatellite Locus Isolated from the Y Chromosome of Lake Charr, <i>Salvelinus namaycush</i> . Environmental Biology of Fishes, 2002, 64, 211-216.	1.0	18
58	The Effect of Nonnative Salmonids on Social Dominance and Growth of Juvenile Atlantic Salmon. Transactions of the American Fisheries Society, 2012, 141, 907-918.	1.4	17
59	Quantitative PCR multiplexes for simultaneous multispecies detection of Asian carp eDNA. Journal of Great Lakes Research, 2017, 43, 771-776.	1.9	16
60	Genetic structure of muskellunge in the Great Lakes region and the effects of supplementation on genetic integrity of wild populations. Journal of Great Lakes Research, 2017, 43, 1141-1152.	1.9	16
61	A chromosome-anchored genome assembly for Lake Trout ( <i>Salvelinus namaycush</i> ). Molecular Ecology Resources, 2022, 22, 679-694.	4.8	16
62	Phylogeographic origins of lake trout ( <i>Salvelinus namaycush</i> ) in eastern North America. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 2764-2775.	1.4	16
63	Impact of copepod predation on distribution patterns of <i>Daphnia pulex</i> clones. Limnology and Oceanography, 1993, 38, 1304-1310.	3.1	15
64	Tracking Coaster Brook Trout to Their Sources: Combining Telemetry and Genetic Profiles to Determine Source Populations. North American Journal of Fisheries Management, 2008, 28, 1343-1349.	1.0	15
65	Quantifying historical, contemporary, and anthropogenic influences on the genetic structure and diversity of lake sturgeon ( <i>Acipenser fulvescens</i> ) populations in northern Ontario. Journal of Applied Ichthyology, 2011, 27, 12-23.	0.7	15
66	The influence of non-native salmonids on circulating hormone concentrations in juvenile Atlantic salmon. Animal Behaviour, 2012, 83, 119-129.	1.9	15
67	Signature of postglacial colonization on contemporary genetic structure and diversity of <i>Quadrula quadrula</i> (Bivalvia: Unionidae). Hydrobiologia, 2018, 810, 207-225.	2.0	15
68	Supplementation stocking of Lake Trout ( <i>Salvelinus namaycush</i> ) in small boreal lakes: Ecotypes influence on growth and condition. PLoS ONE, 2018, 13, e0200599.	2.5	15
69	Seasonal use of two unregulated Lake Superior tributaries by lake sturgeon. Journal of Great Lakes Research, 2020, 46, 1369-1381.	1.9	15
70	How different is different? Defining management and conservation units for a problematic exploited species. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1617-1630.	1.4	14
71	Diversity of the genus <i>Daphniopsis</i> in the saline waters of Australia. Canadian Journal of Zoology, 2000, 78, 794-808.	1.0	14
72	Sperm Quality of Hatchery-Reared Lake Trout Throughout the Spawning Season. North American Journal of Aquaculture, 2013, 75, 102-108.	1.4	13

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73	Pronounced Genetic Structure and Site Fidelity among Native Muskellunge Populations in Lake Huron and Georgian Bay. Transactions of the American Fisheries Society, 2016, 145, 1290-1302.	1.4	13
74	Development of species-specific primers with potential for amplifying eDNA from imperilled freshwater unionid mussels. Genome, 2016, 59, 1141-1149.	2.0	13
75	New and Old World phylogeography of pumpkinseed <i>Lepomis gibbosus</i> (Linnaeus, 1758): the North American origin of introduced populations in Europe. Hydrobiologia, 2020, 847, 345-364.	2.0	13
76	Species traits influence the genetic consequences of river fragmentation on two co-occurring redhorse ( <i>Moxostoma</i> ) species. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 1892-1904.	1.4	12
77	Genetic and ecological assessment of population rehabilitation: walleye in Lake Superior. Ecological Applications, 2013, 23, 594-605.	3.8	12
78	Effects of Competition with Four Nonnative Salmonid Species on Atlantic Salmon from Three Populations. Transactions of the American Fisheries Society, 2015, 144, 1081-1090.	1.4	12
79	Transcriptional profiling of two Atlantic salmon strains: implications for reintroduction into Lake Ontario. Conservation Genetics, 2015, 16, 277-287.	1.5	12
80	Competitive effects between rainbow trout and Atlantic salmon in natural and artificial streams. Ecology of Freshwater Fish, 2016, 25, 248-260.	1.4	12
81	Population structure and genomic variation of ecological life history diversity in wild-caught Lake Superior brook trout, <i>Salvelinus fontinalis</i> . Journal of Great Lakes Research, 2018, 44, 1373-1382.	1.9	12
82	Development of quantitative PCR primers and probes for environmental DNA detection of amphibians in Ontario. Conservation Genetics Resources, 2019, 11, 43-46.	0.8	11
83	Evaluating the genetic consequences of river fragmentation in lake sturgeon ( <i>Acipenser</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 785	8.7	10
84	Performance of four salmonids species in competition with Atlantic salmon. Journal of Great Lakes Research, 2017, 43, 211-215.	1.9	10
85	Testing the effectiveness of environmental <i>scp</i> >DNA</scp> (<scp>eDNA</scp>) to quantify larval amphibian abundance. Environmental DNA, 2022, 4, 1229-1240.	5.8	10
86	Metabolic rates of embryos and alevin from a cold-adapted salmonid differ with temperature, population and family of origin: implications for coping with climate change. , 2018, 6, cox076.		9
87	Mapping of Adaptive Traits Enabled by a High-Density Linkage Map for Lake Trout. G3: Genes, Genomes, Genetics, 2020, 10, g3.401184.2020.	1.8	9
88	Limited transgenerational effects of environmental temperatures on thermal performance of a cold-adapted salmonid. , 2021, 9, coab021.		9
89	Approaches and research needs for advancing the protection and recovery of imperilled freshwater fishes and mussels in Canada<sup>1</sup>. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 1356-1370.	1.4	9
90	Genetic relationships among pumpkinseed ( <i>Lepomis gibbosus</i> ) ecomorphs in freshwater reservoirs of Portugal. Ecology of Freshwater Fish, 2011, 20, 287-298.	1.4	8

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91	Validation of buccal swabs for noninvasive DNA sampling of small-bodied imperiled fishes. Journal of Applied Ichthyology, 2012, 28, 290-292.	0.7	8
92	Genetic estimation of evolutionary and contemporary effective population size in lake sturgeon ( <i>Acipenser fulvescens</i> Rafinesque, 1817) populations. Journal of Applied Ichthyology, 2014, 30, 1290-1299.	0.7	8
93	Impacts of environmental matching on the routine metabolic rate and mass of native and mixed-ancestry brook trout ( <i>Salvelinus fontinalis</i> ) fry. , 2018, 6, coy023.		8
94	Genetic mating system and mate selection in smallmouth bass. Ecology and Evolution, 2017, 7, 8864-8875.	1.9	7
95	Conservation genetics of reidside dace ( <i>Clinostomus elongatus</i> ): phylogeography and contemporary spatial structure. Conservation Genetics, 2018, 19, 409-424.	1.5	7
96	Community eDNA metabarcoding as a detection tool for documenting freshwater mussel (Unionidae) species assemblages. Environmental DNA, 2021, 3, 1172-1191.	5.8	7
97	Matching Management to Biological Scale: Connectivity among Lacustrine Brook Trout Populations. North American Journal of Fisheries Management, 2010, 30, 1132-1142.	1.0	6
98	Development and characterization of nine microsatellite loci for the endangered Kidneyshell, <i>Ptychobranhus fasciolaris</i> , and cross-amplification in closely-related lampsilines (Bivalvia: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td		
99	Genetic architecture and maternal contributions of early-life survival in lake trout <i>Salvelinus namaycush</i> . Journal of Fish Biology, 2016, 88, 2088-2094.	1.6	6
100	Genetic Structure and Phenotypic Plasticity of Yellow Perch ( <i>Perca Flaveszens</i> ) Populations Influenced by Habitat, Predation, and Contamination Gradients. Integrated Environmental Assessment and Management, 2008, 4, 264.	2.9	5
101	Isolation and characterization of microsatellite loci in the reidside dace, <i>Clinostomus elongatus</i> . Conservation Genetics Resources, 2009, 1, 381-383.	0.8	5
102	The effects of inbreeding on sperm quality traits in captive-bred lake trout, <i>Salvelinus namaycush</i> (Walbaum, 1972). Journal of Applied Ichthyology, 2015, 31, 62-70.	0.7	5
103	Comparative ecologies of domestic and naturalised rainbow trout in northern <i>Lake Huron</i> . Ecology of Freshwater Fish, 2015, 24, 338-354.	1.4	5
104	Effects of intraspecific hybridisation between two hatchery-reared strains of Atlantic salmon, <i>Salmo salar</i> , on juvenile survival and fitness-related traits. Fisheries Management and Ecology, 2017, 24, 1-9.	2.0	5
105	Translocation as a mitigation tool: Demographic and genetic analysis of a reintroduced lake sturgeon ( <i>Acipenser fulvescens</i> Rafinesque, 1817) population. Journal of Applied Ichthyology, 2018, 34, 348-363.	0.7	5
106	Paleoecology. , 2021, , 41-67.		5
107	Tracking the prevalence of a fungal pathogen, <i>Batrachochytrium dendrobatidis</i> (chytrid) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 457 Td	5.8	5
108	Diadromy and genetic diversity in Nearctic and Palearctic fishes: a reply. Molecular Ecology, 1999, 8, 529-530.	3.9	4



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109	PCR-RFLP based diagnostic tests for Moxostoma Species in Ontario. Conservation Genetics, 2006, 7, 997-1000.	1.5	4
110	Isolation and characterization of microsatellite loci in the freshwater mussel Lasmigona costata (Bivalvia: Unionoida). Conservation Genetics Resources, 2011, 3, 9-11.	0.8	4
111	Use of Stable Isotopes to Identify Redds of Putative Hatchery and Wild Atlantic Salmon and Evaluate Their Spawning Habitat and Egg Thiamine Status in a Lake Ontario Tributary. North American Journal of Fisheries Management, 2013, 33, 741-753.	1.0	4
112	The speciesâ€‘area relationship for a highly fragmented temperate river system. Ecosphere, 2021, 12, e03411.	2.2	4
113	Innate and learned predator recognition across populations of Atlantic salmon, Salmo salar. Ethology, 2021, 127, 563-571.	1.1	4
114	Reproductive divergence between growth forms of Lake Winnipeg walleye (<i>Sander vitreus</i>). Ecology of Freshwater Fish, 2011, 20, 52-66.	1.4	3
115	Genetic Aspects of Climate Change Influences on Inland Fishes and Fisheries. Fisheries, 2017, 42, 125-126.	0.8	3
116	Predictability of multispecies competitive interactions in three populations of Atlantic salmon <i>Salmo salar</i>. Journal of Fish Biology, 2015, 86, 1438-1443.	1.6	2
117	Postâ€‘release dispersal and spawning movements of a translocated lake sturgeon (<i>Acipenser</i>). Tj ETQq1 1 0.784314 rgBT /Overloc Ichthyology, 2019, 35, 103-116.	0.7	2
118	Effects of a low-thiamine diet on reproductive traits in three populations of Atlantic salmon targeted for reintroduction into Lake Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 135-143.	1.4	2
119	Contemporary genetic structure of walleye (Sander vitreus) reflects a historical inter-basin river diversion. Journal of Great Lakes Research, 2021, 47, 884-891.	1.9	2
120	Broadscale Population Structure and Hatchery Introgression of Midwestern Brook Trout. Transactions of the American Fisheries Society, 2022, 151, 81-99.	1.4	2
121	Capture of Spawning Brook Trout by Electrofishing Does Not Impair Embryo Survival. North American Journal of Fisheries Management, 2022, 42, 228-235.	1.0	2
122	Historical genetic connectivity of lake sturgeon in a dammed Great Lakes tributary. Journal of Great Lakes Research, 2022, 48, 798-805.	1.9	2
123	Genetic Integrity of Lake Trout in Cold Lake, Alberta, Despite Decades of Supplemental Stocking. North American Journal of Fisheries Management, 2020, 40, 459-474.	1.0	1
124	Using Genomic Data to Guide Walleye Management in the Great Lakes. , 2021, , 115-139.		1
125	Differential gene expression associated with behavioral variation in ecotypes of Lake Superior brook trout (Salvelinus fontinalis). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2021, 40, 100884.	1.0	0