Chris C Wilson

List of Publications by Year in descending order

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172386 138417 4,165 123 29 58 citations h-index g-index papers 129 129 129 3761 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	A chromosomeâ€anchored genome assembly for Lake Trout (<i>Salvelinus namaycush</i>). Molecular Ecology Resources, 2022, 22, 679-694.	2.2	16
2	Broadscale Population Structure and Hatchery Introgression of Midwestern Brook Trout. Transactions of the American Fisheries Society, 2022, 151, 81-99.	0.6	2
3	Capture of Spawning Brook Trout by Electrofishing Does Not Impair Embryo Survival. North American Journal of Fisheries Management, 2022, 42, 228-235.	0.5	2
4	Tracking the prevalence of a fungal pathogen, <i>Batrachochytrium dendrobatidis</i> (chytrid) Tj ETQq0 0 0 rgBT	/Oyerlock	10 Tf 50 62
5	Historical genetic connectivity of lake sturgeon in a dammed Great Lakes tributary. Journal of Great Lakes Research, 2022, 48, 798-805.	0.8	2
6	Testing the effectiveness of environmental <scp>DNA</scp> (<scp>eDNA</scp>) to quantify larval amphibian abundance. Environmental DNA, 2022, 4, 1229-1240.	3.1	10
7	Paleoecology. , 2021, , 41-67.		5
8	Limited transgenerational effects of environmental temperatures on thermal performance of a cold-adapted salmonid., 2021, 9, coab021.		9
9	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.	0.7	2
10	The species–area relationship for a highly fragmented temperate river system. Ecosphere, 2021, 12, e03411.	1.0	4
11	Mixedâ€stock analysis using Rapture genotyping to evaluate stockâ€specific exploitation of a walleye population despite weak genetic structure. Evolutionary Applications, 2021, 14, 1403-1420.	1.5	19
12	Innate and learned predator recognition across populations of Atlantic salmon, Salmo salar. Ethology, 2021, 127, 563-571.	0.5	4
13	Contemporary genetic structure of walleye (Sander vitreus) reflects a historical inter-basin river diversion. Journal of Great Lakes Research, 2021, 47, 884-891.	0.8	2
14	Community eDNA metabarcoding as a detection tool for documenting freshwater mussel (Unionidae) species assemblages. Environmental DNA, 2021, 3, 1172-1191.	3.1	7
15	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.	0.7	9
16	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.	0.4	0
17	Using Genomic Data to Guide Walleye Management in the Great Lakes. , 2021, , 115-139.		1
18	New and Old World phylogeography of pumpkinseed Lepomis gibbosus (Linnaeus, 1758): the North American origin of introduced populations in Europe. Hydrobiologia, 2020, 847, 345-364.	1.0	13

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19	Reporting the limits of detection and quantification for environmental DNA assays. Environmental DNA, 2020, 2, 271-282.	3.1	269
20	Mapping of Adaptive Traits Enabled by a High-Density Linkage Map for Lake Trout. G3: Genes, Genomes, Genetics, 2020, 10, g3.401184.2020.	0.8	9
21	Seasonal use of two unregulated Lake Superior tributaries by lake sturgeon. Journal of Great Lakes Research, 2020, 46, 1369-1381.	0.8	15
22	Detection of spatiotemporal variation in ranavirus distribution using eDNA. Environmental DNA, 2020, 2, 210-220.	3.1	19
23	Genetic Integrity of Lake Trout in Cold Lake, Alberta, Despite Decades of Supplemental Stocking. North American Journal of Fisheries Management, 2020, 40, 459-474.	0.5	1
24	Postâ€release dispersal and spawning movements of a translocated lake sturgeon (<i>Acipenser) Tj ETQq0 0 0 Ichthyology, 2019, 35, 103-116.</i>	rgBT /Over 0.3	lock 10 Tf 50 2
25	Development of quantitative PCR primers and probes for environmental DNA detection of amphibians in Ontario. Conservation Genetics Resources, 2019, 11, 43-46.	0.4	11
26	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.	0.9	41
27	Acclimation capacity of the cardiac HSP70 and HSP90 response to thermal stress in lake trout (Salvelinus namaycush), a stenothermal ice-age relict. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 53-60.	0.7	22
28	Signature of postglacial colonization on contemporary genetic structure and diversity of Quadrula quadrula (Bivalvia: Unionidae). Hydrobiologia, 2018, 810, 207-225.	1.0	15
29	Conservation genetics of redside dace (Clinostomus elongatus): phylogeography and contemporary spatial structure. Conservation Genetics, 2018, 19, 409-424.	0.8	7
30	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.	0.3	5
31	Establishing detection thresholds for environmental DNA using receiver operator characteristic (ROC) curves. Conservation Genetics Resources, 2018, 10, 555-562.	0.4	19
32	Impacts of environmental matching on the routine metabolic rate and mass of native and mixed-ancestry brook trout (Salvelinus fontinalis) fry., 2018, 6, coy023.		8
33	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
34	Supplementation stocking of Lake Trout (Salvelinus namaycush) in small boreal lakes: Ecotypes influence on growth and condition. PLoS ONE, 2018, 13, e0200599.	1.1	15
35	Population structure and genomic variation of ecological life history diversity in wild-caught Lake Superior brook trout, Salvelinus fontinalis. Journal of Great Lakes Research, 2018, 44, 1373-1382.	0.8	12
36	Genetic Aspects of Climate Change Influences on Inland Fishes and Fisheries. Fisheries, 2017, 42, 125-126.	0.6	3

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37	Quantitative PCR multiplexes for simultaneous multispecies detection of Asian carp eDNA. Journal of Great Lakes Research, 2017, 43, 771-776.	0.8	16
38	Performance of four salmonids species in competition with Atlantic salmon. Journal of Great Lakes Research, 2017, 43, 211-215.	0.8	10
39	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.	0.8	16
40	Effects of intraspecific hybridisation between two hatcheryâ€reared strains of Atlantic salmon, <i>Salmo salar</i> , on juvenile survival and fitnessâ€related traits. Fisheries Management and Ecology, 2017, 24, 1-9.	1.0	5
41	Genetic mating system and mate selection in smallmouth bass. Ecology and Evolution, 2017, 7, 8864-8875.	0.8	7
42	Environmental DNA (eDNA) detection and habitat occupancy of threatened spotted gar (Lepisosteus) Tj ETQq0	0 O _O .gBT /	Overlock 10 T
43	Genetic architecture and maternal contributions of earlyâ€life survival in lake trout <i>Salvelinus namaycush</i> . Journal of Fish Biology, 2016, 88, 2088-2094.	0.7	6
44	Recognizing false positives: synthetic oligonucleotide controls for environmental <scp>DNA</scp> surveillance. Methods in Ecology and Evolution, 2016, 7, 23-29.	2.2	28
45	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.	0.6	13
46	Relationship between cardiac performance and environment across populations of Atlantic salmon (Salmo salar): a common garden experiment implicates local adaptation. Evolutionary Ecology, 2016, 30, 877-886.	0.5	21
47	Development of species-specific primers with potential for amplifying eDNA from imperilled freshwater unionid mussels. Genome, 2016, 59, 1141-1149.	0.9	13
48	Competitive effects between rainbow trout and Atlantic salmon in natural and artificial streams. Ecology of Freshwater Fish, 2016, 25, 248-260.	0.7	12
49	Genetic and maternal effects on juvenile survival and fitness-related traits in three populations of Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 751-758.	0.7	23
50	Development of species-specific environmental DNA (eDNA) markers for invasive aquatic plants. Aquatic Botany, 2015, 122, 27-31.	0.8	68
51	Predictability of multispecies competitive interactions in three populations of Atlantic salmon <i>Salmo salar</i> . Journal of Fish Biology, 2015, 86, 1438-1443.	0.7	2
52	Comparative analysis of riverscape genetic structure in rare, threatened and common freshwater mussels. Conservation Genetics, 2015, 16, 845-857.	0.8	51
53	Effects of feeding high dietary thiaminase to sub-adult Atlantic salmon from three populations. Journal of Great Lakes Research, 2015, 41, 898-906.	0.8	21
54	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.	0.3	5

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55	Effects of Competition with Four Nonnative Salmonid Species on Atlantic Salmon from Three Populations. Transactions of the American Fisheries Society, 2015, 144, 1081-1090.	0.6	12
56	Competitive interactions among multiple nonâ€native salmonids and two populations of <scp>A</scp> tlantic salmon. Ecology of Freshwater Fish, 2015, 24, 44-55.	0.7	27
57	Comparative ecologies of domestic and naturalised rainbow trout in northern <scp>L</scp> ake <scp>H</scp> uron. Ecology of Freshwater Fish, 2015, 24, 338-354.	0.7	5
58	Transcriptional profiling of two Atlantic salmon strains: implications for reintroduction into Lake Ontario. Conservation Genetics, 2015, 16, 277-287.	0.8	12
59	Development and Validation of Environmental DNA (eDNA) Markers for Detection of Freshwater Turtles. PLoS ONE, 2015, 10, e0130965.	1.1	111
60	Does humanâ€induced hybridization have longâ€term genetic effects? Empirical testing with domesticated, wild and hybridized fish populations. Evolutionary Applications, 2014, 7, 1180-1191.	1.5	30
61	Anthropogenic and habitat correlates of hybridization between hatchery and wild brook trout. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 688-697.	0.7	26
62	Intraspecific Variation in Thermal Tolerance and Acclimation Capacity in Brook Trout (<i>Salvelinus) Tj ETQq0 0 0 Zoology, 2014, 87, 15-29.</i>	rgBT /Ove	erlock 10 Tf 5 101
63	Evaluating the genetic consequences of river fragmentation in lake sturgeon (<i>Acipenser) Tj ETQq1 1 0.78431</i>	4 rgBT /O\	verlock 10 Tf
64	Ice age fish in a warming world: minimal variation in thermal acclimation capacity among lake trout (Salvelinus namaycush) populations., 2014, 2, cou025-cou025.		29
65	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.	0.3	8
66	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.	0.5	39
67	Combining species-specific COI primers with environmental DNA analysis for targeted detection of rare freshwater species. Conservation Genetics Resources, 2013, 5, 971-975.	0.4	24
68	Ovarian fluid influences sperm performance in lake trout, Salvelinus namaycush. Reproductive Biology, 2013, 13, 172-175.	0.9	28
69	Genetic architecture of survival and fitness-related traits in two populations of Atlantic salmon. Heredity, 2013, 111, 513-519.	1.2	22
70	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.	0.5	4
71	Intraspecific Differences in Thermal Biology among Inland Lake Trout Populations. Transactions of the American Fisheries Society, 2013, 142, 756-766.	0.6	19
72	Sperm Quality of Hatchery-Reared Lake Trout Throughout the Spawning Season. North American Journal of Aquaculture, 2013, 75, 102-108.	0.7	13

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73	Genetic and ecological assessment of population rehabilitation: walleye in Lake Superior. Ecological Applications, 2013, 23, 594-605.	1.8	12
74	The Effect of Nonnative Salmonids on Social Dominance and Growth of Juvenile Atlantic Salmon. Transactions of the American Fisheries Society, 2012, 141, 907-918.	0.6	17
75	Ovarian fluid enhances sperm velocity based on relatedness in lake trout, Salvelinus namaycush. Theriogenology, 2012, 78, 2105-2109.e1.	0.9	59
76	Variation in Acute Thermal Tolerance within and among Hatchery Strains of Brook Trout. Transactions of the American Fisheries Society, 2012, 141, 1230-1235.	0.6	20
77	No evidence for niche segregation in a North American Cattail (<i>Typha</i>) species complex. Ecology and Evolution, 2012, 2, 952-961.	0.8	21
78	Validation of buccal swabs for noninvasive DNA sampling of small-bodied imperiled fishes. Journal of Applied Ichthyology, 2012, 28, 290-292.	0.3	8
79	The influence of non-native salmonids on circulating hormone concentrations in juvenile Atlantic salmon. Animal Behaviour, 2012, 83, 119-129.	0.8	15
80	The effect of competition among three salmonids on dominance and growth during the juvenile life stage. Ecology of Freshwater Fish, 2012, 21, 533-540.	0.7	26
81	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
82	Quantifying historical, contemporary, and anthropogenic influences on the genetic structure and diversity of lake sturgeon (Acipenser fulvescens) populations in northern Ontario. Journal of Applied Ichthyology, 2011, 27, 12-23.	0.3	15
83	Reproductive divergence between growth forms of Lake Winnipeg walleye (<i>Sander vitreus</i>). Ecology of Freshwater Fish, 2011, 20, 52-66.	0.7	3
84	Genetic relationships among pumpkinseed (<i>Lepomis gibbosus</i>) ecomorphs in freshwater reservoirs of Portugal. Ecology of Freshwater Fish, 2011, 20, 287-298.	0.7	8
85	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.	0.7	34
86	Genetic assessment of lake sturgeon (Acipenser fulvescens) population structure in the Ottawa River. Environmental Biology of Fishes, 2011, 90, 183-195.	0.4	33
87	Isolation and characterization of microsatellite loci in the freshwater mussel Lasmigona costata (Bivalvia: Unionoida). Conservation Genetics Resources, 2011, 3, 9-11.	0.4	4
88	Development and characterization of nine microsatellite loci for the endangered Kidneyshell, Ptychobranchus fasciolaris, and cross-amplification in closely-related lampsilines (Bivalvia:) Tj ETQq0 0 0 rgBT /C	Overloaek 10) Tf ⊚ 0 137 Td
89	Matching Management to Biological Scale: Connectivity among Lacustrine Brook Trout Populations. North American Journal of Fisheries Management, 2010, 30, 1132-1142.	0.5	6
90	Early Life History Variation among Hatchery―and Wildâ€Origin Lake Trout Reared in a Hatchery Environment. Transactions of the American Fisheries Society, 2010, 139, 21-28.	0.6	20

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91	Isolation and characterization of microsatellite loci in the redside dace, Clinostomus elongatus. Conservation Genetics Resources, 2009, 1, 381-383.	0.4	5
92	Variable Introgression from Supplemental Stocking in Southern Ontario Populations of Lake Trout. Transactions of the American Fisheries Society, 2009, 138, 699-719.	0.6	25
93	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.	0.7	14
94	Population structure and genetic diversity of black redhorse (Moxostoma duquesnei) in a highly fragmented watershed. Conservation Genetics, 2008, 9, 531-546.	0.8	46
95	Species traits influence the genetic consequences of river fragmentation on two co-occurring redhorse (Moxostoma) species. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 1892-1904.	0.7	12
96	Conservation Genetics of Lake Superior Brook Trout: Issues, Questions, and Directions. North American Journal of Fisheries Management, 2008, 28, 1307-1320.	0.5	24
97	Genetic Population Structure among Source Populations for Coaster Brook Trout in Nipigon Bay, Lake Superior. Transactions of the American Fisheries Society, 2008, 137, 1213-1228.	0.6	25
98	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.	0.5	15
99	Genetic Structure and Phenotypic Plasticity of Yellow Perch (Perca Flavescens) Populations Influenced by Habitat, Predation, and Contamination Gradients. Integrated Environmental Assessment and Management, 2008, 4, 264.	1.6	5
100	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.	0.8	31
101	Genetic Assessment of Walleye (Sander vitreus) Restoration Efforts and Options in Nipigon Bay and Black Bay, Lake Superior. Journal of Great Lakes Research, 2007, 33, 133-144.	0.8	35
102	Influence of dams and habitat condition on the distribution of redhorse (Moxostoma) species in the Grand River watershed, Ontario. Environmental Biology of Fishes, 2007, 81, 111-125.	0.4	30
103	Mitochondrial DNA identification of game and harvested freshwater fish species. Forensic Science International, 2007, 166, 68-76.	1.3	37
104	The systematics of AustralianDaphniaandDaphniopsis(Crustacea: Cladocera): a shared phylogenetic history transformed by habitat-specific rates of evolution. Biological Journal of the Linnean Society, 2006, 89, 469-488.	0.7	41
105	PCR-RFLP based diagnostic tests for Moxostoma Species in Ontario. Conservation Genetics, 2006, 7, 997-1000.	0.8	4
106	Conservation Genetics of Inland Lake Trout in the Upper Mississippi River Basin: Stocked or Native Ancestry?. Transactions of the American Fisheries Society, 2005, 134, 789-802.	0.6	24
107	Breeding success of male brook trout (Salvelinus fontinalis) in the wild. Molecular Ecology, 2003, 12, 2417-2428.	2.0	63
108	The fuzzy structure of populations. Canadian Journal of Zoology, 2002, 80, 2235-2241.	0.4	32

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109	ACCELERATED MOLECULAR EVOLUTION IN HALOPHILIC CRUSTACEANS. Evolution; International Journal of Organic Evolution, 2002, 56, 909-926.	1.1	101
110	A Sex-linked Microsatellite Locus Isolated from the Y Chromosome of Lake Charr, Salvelinus Namaycush. Environmental Biology of Fishes, 2002, 64, 211-216.	0.4	18
111	HOLARCTIC PHYLOGEOGRAPHY OF ARCTIC CHARR (SALVELINUS ALPINUS L.) INFERRED FROM MITOCHONDRIAL DNA SEQUENCES. Evolution; International Journal of Organic Evolution, 2001, 55, 573.	1.1	225
112	Diversity of the genus <i>Daphniopsis</i> in the saline waters of Australia. Canadian Journal of Zoology, 2000, 78, 794-808.	0.4	14
113	Diadromy and genetic diversity in Nearctic and Palearctic fishes: a reply. Molecular Ecology, 1999, 8, 529-530.	2.0	4
114	The ghost of hybrids past: fixation of arctic charr (Salvelinus alpinus) mitochondrial DNA in an introgressed population of lake trout (S. namaycush). Molecular Ecology, 1998, 7, 127-132.	2.0	147
115	Comparative phylogeography of Nearctic and Palearctic fishes. Molecular Ecology, 1998, 7, 431-452.	2.0	751
116	Phylogeography and postglacial dispersal of arctic charr Salvelinus alpinus in North America. Molecular Ecology, 1996, 5, 187-197.	2.0	39
117	Introgression and fixation of Arctic char (Salvelinus alpinus) mitochondrial genome in an allopatric population of brook trout (Salvelinus fontinalis). Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 179-185.	0.7	191
118	PROVINCIALISM IN PLANKTON: ENDEMISM AND ALLOPATRIC SPECIATION IN AUSTRALIAN (i) DAPHNIA (i). Evolution; International Journal of Organic Evolution, 1994, 48, 1333-1349.	1.1	53
119	Natural Hybridization between Arctic Char (<i>Salvelinus alpinus</i>) and Lake Trout (<i>S</i>) Tj ETQq1 1 0.78	4314 rgBT 0.7	
120	Impact of copepod predation on distribution patterns of Daphnia pulex clones. Limnology and Oceanography, 1993, 38, 1304-1310.	1.6	15
121	The Maintenance of Taxon Diversity in an Asexual Assemblage: An Experimental Analysis. Ecology, 1992, 73, 1462-1472.	1.5	50
122	Demography and ecological impacts of the invading mollusc <i>Dreissena polymorpha</i> Journal of Zoology, 1991, 69, 405-409.	0.4	156
123	Parental Investment and Sex Allocation in a Viviparous Onychophoran. Oikos, 1989, 56, 224.	1.2	21