

# Trevor E Pitcher

## List of Publications by Year in descending order

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100  
papers

3,403  
citations

186209

28  
h-index

155592

55  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic quality and sexual selection: an integrated framework for good genes and compatible genes. <i>Molecular Ecology</i> , 2004, 14, 19-38.	2.0	557
2	MATING SYSTEMS, SPERM COMPETITION, AND THE EVOLUTION OF SEXUAL DIMORPHISM IN BIRDS. <i>Evolution; International Journal of Organic Evolution</i> , 2001, 55, 161-175.	1.1	311
3	Multiple mating and sequential mate choice in guppies: females trade up. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1623-1629.	1.2	193
4	Sperm competition and the evolution of testes size in birds. <i>Journal of Evolutionary Biology</i> , 2005, 18, 557-567.	0.8	141
5	Sexual selection and the risk of extinction in birds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1793-1799.	1.2	119
6	Inter-population variation in multiple paternity and reproductive skew in the guppy. <i>Molecular Ecology</i> , 2008, 17, 2975-2984.	2.0	108
7	No evidence that sexual selection is an 'engine of speciation' in birds. <i>Ecology Letters</i> , 2003, 6, 228-234.	3.0	95
8	Genetic quality and offspring performance in Chinook salmon: implications for supportive breeding. <i>Conservation Genetics</i> , 2007, 8, 607-616.	0.8	90
9	Sexual colouration and sperm traits in guppies. <i>Journal of Fish Biology</i> , 2007, 70, 165-177.	0.7	87
10	MHC class IIB alleles contribute to both additive and nonadditive genetic effects on survival in Chinook salmon. <i>Molecular Ecology</i> , 2006, 15, 2357-2365.	2.0	84
11	Standardization of fertilization protocols for the European eel, <i>Anguilla anguilla</i> . <i>Aquaculture</i> , 2014, 426-427, 9-13.	1.7	69
12	Intraspecific evidence from guppies for correlated patterns of male and female genital trait diversification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2611-2620.	1.2	65
13	Male phenotype and sperm number in the guppy ( <i>Poecilia reticulata</i> ). <i>Canadian Journal of Zoology</i> , 2001, 79, 1891-1896.	0.4	61
14	Ovarian fluid enhances sperm velocity based on relatedness in lake trout, <i>Salvelinus namaycush</i> . <i>Theriogenology</i> , 2012, 78, 2105-2109.e1.	0.9	59
15	The evolution of infertility: does hatching rate in birds coevolve with female polyandry?. <i>Journal of Evolutionary Biology</i> , 2002, 15, 702-709.	0.8	54
16	Conservation and enhancement of wild fish populations: preserving genetic quality versus genetic diversity<sup>1</sup>This paper is derived from the J.C. Stevenson Memorial Lecture delivered by Bryan Neff at the Canadian Conference for Fisheries Research in Winnipeg, Manitoba, January 2010.. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 1139-1154.	0.7	54
17	Secondary sexual characters and sperm traits in coho salmon <i>Oncorhynchus kisutch</i> . <i>Journal of Fish Biology</i> , 2009, 74, 1450-1461.	0.7	51
18	Extraterritorial forays and male parental care in hooded warblers. <i>Animal Behaviour</i> , 2000, 59, 1261-1269.	0.8	47

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19	Male phenotype and sperm number in the guppy ( <i>Poecilia reticulata</i> ). Canadian Journal of Zoology, 2001, 79, 1891-1896.	0.4	46
20	Cultured growth hormone transgenic salmon are reproductively out-competed by wild-reared salmon in semi-natural mating arenas. Aquaculture, 2011, 312, 185-191.	1.7	44
21	Thermal tolerance depends on season, age and body condition in imperilled redbreasted sunfish <i>Lepomis microlophus</i> . , 2020, 8, coaa062.		40
22	Female choice and the relatedness of mates in the guppy ( <i>Poecilia reticulata</i> ). Genetica, 2008, 134, 137-146.	0.5	39
23	Mate choice for non-additive genetic benefits: A resolution to the lek paradox. Journal of Theoretical Biology, 2008, 254, 147-155.	0.8	38
24	Diet discrimination factors are inversely related to $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ values of food for fish under controlled conditions. Rapid Communications in Mass Spectrometry, 2010, 24, 3515-3520.	0.7	33
25	Reproductive investment patterns, sperm characteristics, and seminal plasma physiology in alternative reproductive tactics of Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). Biological Journal of the Linnean Society, 2013, 108, 99-108.	0.7	33
26	Primary and secondary sexual characters in alternative reproductive tactics of Chinook salmon: Associations with androgens and the maturation-inducing steroid. General and Comparative Endocrinology, 2012, 175, 449-456.	0.8	32
27	A Bayesian Model for Assessing the Frequency of Multiple Mating in Nature. , 2002, 93, 406-414.		31
28	Physiological functions of osmolality and calcium ions on the initiation of sperm motility and swimming performance in redbreasted sunfish, <i>Lepomis microlophus</i> . Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 147-157.	0.8	31
29	Carotenoid pigmentation in salmon: variation in expression at <i>BCO2-1</i> locus controls a key fitness trait affecting red coloration. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191588.	1.2	31
30	Ovarian fluid impacts flagellar beating and biomechanical metrics of sperm between alternative reproductive tactics. Journal of Experimental Biology, 2017, 220, 2210-2217.	0.8	30
31	Effects of ovarian fluid and genetic differences on sperm performance and fertilization success of alternative reproductive tactics in Chinook salmon. Journal of Evolutionary Biology, 2017, 30, 1236-1245.	0.8	29
32	Ovarian fluid influences sperm performance in lake trout, <i>Salvelinus namaycush</i> . Reproductive Biology, 2013, 13, 172-175.	0.9	28
33	A comparative analysis of laying times in passerine birds. Journal of Field Ornithology, 2004, 75, 113-122.	0.3	27
34	Spawning coloration, female choice and sperm competition in the redbreasted sunfish, <i>Lepomis microlophus</i> . Animal Behaviour, 2012, 83, 969-977.	0.8	27
35	Red and white Chinook salmon: genetic divergence and mate choice. Molecular Ecology, 2016, 25, 1259-1274.	2.0	25
36	Geographic variation in sperm traits reflects predation risk and natural rates of multiple paternity in the guppy. Journal of Evolutionary Biology, 2010, 23, 1331-1338.	0.8	24

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37	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.	0.7	23
38	Post-spawning sexual selection in red and white Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Evolution</i> , 2010, 64, 2022-2032.	1.0	22
39	Automated sperm head morphology analyzer for open-source software. <i>Theriogenology</i> , 2011, 76, 1756-1761.e3.	0.9	21
40	Reproductive investment patterns and comparison of sperm quality in the presence and absence of ovarian fluid in alternative reproductive tactics of masu salmon, <i>Oncorhynchus masou</i> . <i>Theriogenology</i> , 2016, 86, 2189-2193.e2.	0.9	21
41	Proteomic characterization of seminal plasma from alternative reproductive tactics of Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Journal of Proteomics</i> , 2017, 157, 1-9.	1.2	21
42	Latitudinal variation in testis size in six species of North American songbirds. <i>Canadian Journal of Zoology</i> , 1998, 76, 618-622.	0.4	20
43	The effects of rival seminal plasma on sperm velocity in the alternative reproductive tactics of Chinook salmon. <i>Theriogenology</i> , 2017, 92, 24-29.	0.9	20
44	Song and Sperm in Crickets: A Trade-off between Pre- and Post-copulatory Traits or Phenotype-Linked Fertility?. <i>Ethology</i> , 2011, 117, 154-162.	0.5	19
45	Sperm trait differences between wild and farmed Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Aquaculture</i> , 2012, 344-349, 242-247.	1.7	19
46	Does male extra-territory foray effort affect fertilization success in hooded warblers <i>Wilsonia citrina</i> ?. <i>Journal of Avian Biology</i> , 2005, 36, 471-477.	0.6	18
47	fullfact: an R package for the analysis of genetic and maternal variance components from full factorial mating designs. <i>Ecology and Evolution</i> , 2016, 6, 1656-1665.	0.8	18
48	Ontogenetic shifts in genetic and maternal effects on length and survival in Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Evolution</i> , 2010, 64, 3021-3032.	1.7	18
49	Post-exercise respirometry underestimates maximum metabolic rate in juvenile salmon. <i>Journal of Experimental Biology</i> , 2020, 233, e2020063.		17
50	Reintroduction of fishes in Canada: a review of research progress for SARA-listed species. <i>Environmental Reviews</i> , 2019, 27, 575-599.	2.1	16
51	Evolution of mating systems and sexual size dimorphism in North American cyprinids. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 747-756.	0.6	15
52	Bioamplification and the Selective Depletion of Persistent Organic Pollutants in Chinook Salmon Larvae. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2420-2426.	4.6	14
53	Paternal identity impacts embryonic development for two species of freshwater fish. <i>General and Comparative Endocrinology</i> , 2017, 245, 30-35.	0.8	14
54	Sperm Quality of Hatchery-Reared Lake Trout Throughout the Spawning Season. <i>North American Journal of Aquaculture</i> , 2013, 75, 102-108.	0.7	13

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55	The Spatial Response of Male Hooded Warblers to Edges in Isolated Fragments. <i>Condor</i> , 2000, 102, 595-600.	0.7	11
56	Mate choice for nonadditive genetic benefits and the maintenance of genetic diversity in song sparrows. <i>Journal of Evolutionary Biology</i> , 2009, 22, 424-429.	0.8	11
57	Domestic-wild hybridization to improve aquaculture performance in Chinook salmon. <i>Aquaculture</i> , 2019, 511, 734255.	1.7	11
58	Multigenerational outbreeding effects in Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Genetica</i> , 2014, 142, 281-293.	0.5	10
59	Differences in egg quantity and quality among hatchery- and wild-origin Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 737-746.	0.7	10
60	Exposure to exogenous egg cortisol does not rescue juvenile Chinook salmon body size, condition, or survival from the effects of elevated water temperatures. <i>Ecology and Evolution</i> , 2020, 10, 2466-2477.	0.8	10
61	Sperm allocation in relation to female size in a semelparous salmonid. <i>Royal Society Open Science</i> , 2016, 3, 160497.	1.1	9
62	Approaches and research needs for advancing the protection and recovery of imperilled freshwater fishes and mussels in Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1356-1370.	0.7	9
63	Choosing source populations for conservation reintroductions: lessons from variation in thermal tolerance among populations of the imperilled redbreasted dace. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1347-1355.	0.7	9
64	Sperm competition, but not major histocompatibility divergence, drives differential fertilization success between alternative reproductive tactics in Chinook salmon. <i>Journal of Evolutionary Biology</i> , 2018, 31, 88-97.	0.8	8
65	Significant differences in maternal carotenoid provisioning and effects on offspring fitness in Chinook salmon colour morphs. <i>Journal of Evolutionary Biology</i> , 2018, 31, 1876-1893.	0.8	8
66	Sperm design and function in the redbreasted dace ( <i>Clinostomus elongatus</i> ). <i>Journal of Fish Biology</i> , 2009, 75, 924-931.	0.7	7
67	Acclimation of life history traits to experimental changes in environmental contaminant concentrations in brown bullhead ( <i>Ameiurus nebulosus</i> ). <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 863-869.	2.2	7
68	Additive and non-additive genetic components of the jack male life history in Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Genetica</i> , 2016, 144, 477-485.	0.5	7
69	Assessing Acoustic Tagging Effects on Survival, Growth, and Swimming Ability of Juvenile Lake Sturgeon. <i>North American Journal of Fisheries Management</i> , 2019, 39, 574-581.	0.5	7
70	Effects of intracoelomic transmitter implantation on metabolic rate, swimming performance, growth and survival in juveniles of two salmonids. <i>Journal of Fish Biology</i> , 2019, 95, 1094-1106.	0.7	7
71	Genetic architecture and maternal contributions of early life survival in lake trout ( <i>Salvelinus namaycush</i> ). <i>Journal of Fish Biology</i> , 2016, 88, 2088-2094.	0.7	6
72	Organization of glomerular territories in the olfactory bulb of post-embryonic wild chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Journal of Morphology</i> , 2017, 278, 464-474.	0.6	6

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73	Tactic-specific benefits of polyandry in Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Journal of Fish Biology</i> , 2017, 90, 1244-1256.	0.7	6
74	Channel catfish ovarian fluid differentially enhances blue catfish sperm performance. <i>Theriogenology</i> , 2020, 149, 62-71.	0.9	6
75	Acute thermal stress elicits interactions between gene expression and alternative splicing in a fish of conservation concern. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	6
76	Isolation and characterization of microsatellite loci in the redbside dace, <i>Clinostomus elongatus</i> . <i>Conservation Genetics Resources</i> , 2009, 1, 381-383.	0.4	5
77	Multiple paternity, reproductive skew and correlates of male reproductive success in a wild population of the Trinidadian guppy. <i>Ecology of Freshwater Fish</i> , 2012, 21, 109-118.	0.7	5
78	The effect of food provisioning on persistent organic pollutant bioamplification in Chinook salmon larvae. <i>Chemosphere</i> , 2013, 92, 10-15.	4.2	5
79	The effects of inbreeding on sperm quality traits in captive-bred lake trout, ( <i>Salvelinus namaycush</i> ) (Walbaum, 1972). <i>Journal of Applied Ichthyology</i> , 2015, 31, 62-70.	0.3	5
80	Effects of intraspecific hybridisation between two hatchery-reared strains of Atlantic salmon, ( <i>Salmo salar</i> ), on juvenile survival and fitness-related traits. <i>Fisheries Management and Ecology</i> , 2017, 24, 1-9.	1.0	5
81	FEMALE SONG IN THE HOODED WARBLER. <i>Northeastern Naturalist</i> , 2003, 10, 457-464.	0.1	4
82	Genetic architecture of gene transcription in two Atlantic salmon ( <i>Salmo salar</i> ) populations. <i>Heredity</i> , 2017, 119, 117-124.	1.2	4
83	The effects of paternal reproductive tactic and rearing environment on juvenile variation in growth as mediated through aggression and foraging behaviours of Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ). <i>Journal of Experimental Biology</i> , 2017, 204, 101-110.	0.784314	4
84	Associations Between Female Reproductive Traits and Polychlorinated Biphenyl Sediment Concentrations in Wild Populations of Brown Bullhead ( <i>Ameiurus nebulosus</i> ). <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 65, 742-752.	2.1	3
85	Mimicking Transgenerational Signals of Future Stress: Thermal Tolerance of Juvenile Chinook Salmon Is More Sensitive to Elevated Rearing Temperature Than Exogenously Increased Egg Cortisol. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	3
86	Effects of age on sperm quality metrics in endangered Mississippi gopher frogs ( <i>Lithobates sevosus</i> ) from captive populations used for controlled propagation and reintroduction efforts. <i>Zoo Biology</i> , 2021, 40, 218-226.	0.5	3
87	The Spatial Response of Male Hooded Warblers to Edges in Isolated Fragments. <i>Condor</i> , 2000, 102, 595-600.	0.7	3
88	Female Song in the Hooded Warbler. <i>Northeastern Naturalist</i> , 2003, 10, 457.	0.1	2
89	An introduction to genetic quality in the context of sexual selection. <i>Genetica</i> , 2008, 134, 1-4.	0.5	2
90	Effects of a low-thiamine diet on reproductive traits in three populations of Atlantic salmon targeted for reintroduction into Lake Ontario. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 135-143.	0.7	2

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91	Assessing the statistical power of genetic analyses to detect multiple mating in fishes. <i>Journal of Fish Biology</i> , 2002, 61, 739-750.	0.7	2
92	Exploring relationships between oxygen consumption and biologically derived estimates of heart rate in two warmwater piscivores. <i>Journal of Fish Biology</i> , 2021, , .	0.7	2
93	Sex, Color, and Mate Choice in Guppies (Monographs in Behavior and Ecology). Anne E. Houde.. <i>Reviews in Fish Biology and Fisheries</i> , 1999, 9, 203-204.	2.4	1
94	Development of a Sperm Cryopreservation Protocol for Redside Dace: Implications for Genome Resource Banking. <i>Transactions of the American Fisheries Society</i> , 2013, 142, 671-680.	0.6	1
95	Redder isn't always better: cost of carotenoids in Chinook salmon eggs. <i>Behavioral Ecology</i> , 2017, , arw182.	1.0	1
96	Inter-population differences in farmed Chinook salmon product quantity and quality. <i>Aquaculture</i> , 2019, 506, 23-29.	1.7	1
97	Assessing the potential for post-ejaculatory female choice in a polyandrous beach-spawning fish. <i>Journal of Evolutionary Biology</i> , 2020, 33, 449-459.	0.8	1
98	Canadian Aquaculture News: Grant to Study the Value of Incorporating Wild Salmon Genes into an Organic Aquaculture Industry Partner's Practice. <i>Fisheries</i> , 2014, 39, 507-507.	0.6	0
99	Time from injection of luteinizing hormone-releasing hormone analog affects sperm quality in the critically endangered Mississippi gopher frog ( <i>Lithobates sevosus</i> ). <i>Zoo Biology</i> , 2020, 39, 23-28.	0.5	0
100	Does male extra-territory foray effort affect fertilization success in hooded warblers <i>Wilsonia citrina</i> ?. <i>Journal of Avian Biology</i> , 2005, .	0.6	0