Nann A Fangue

List of Publications by Year
in descending order

106 papers	3,400 citations	201674 27 h-index	175258 52 g-index
108 all docs	108 docs citations	108 times ranked	3258 citing authors

#	Article	IF	Citations
1	Thermal Performance Curves, Phenotypic Plasticity, and the Time Scales of Temperature Exposure. Integrative and Comparative Biology, 2011, 51, 691-702.	2.0	547
2	Intraspecific variation in thermal tolerance and heat shock protein gene expression in common killifish, Fundulus heteroclitus. Journal of Experimental Biology, 2006, 209, 2859-2872.	1.7	406
3	Do mitochondrial properties explain intraspecific variation in thermal tolerance?. Journal of Experimental Biology, 2009, 212, 514-522.	1.7	172
4	A laboratoryâ€based, experimental system for the study of ocean acidification effects on marine invertebrate larvae. Limnology and Oceanography: Methods, 2010, 8, 441-452.	2.0	89
5	Thermal Tolerance Responses of Laboratory-Acclimated and Seasonally Acclimatized Atlantic Stingray, Dasyatis sabina. Copeia, 2003, 2003, 315-325.	1.3	88
6	Effects of high temperatures on threatened estuarine fishes during periods of extreme drought. Journal of Experimental Biology, 2016, 219, 1705-1716.	1.7	86
7	The utility of transcriptomics in fish conservation. Journal of Experimental Biology, 2018, 221, .	1.7	82
8	Swimming Performance and Energetics as a Function of Temperature in KillifishFundulus heteroclitus. Physiological and Biochemical Zoology, 2008, 81, 389-401.	1.5	81
9	Transcriptomic changes underlie altered egg protein production and reduced fecundity in an estuarine model fish exposed to bifenthrin. Aquatic Toxicology, 2016, 174, 247-260.	4.0	80
10	Countergradient Variation in Temperature Preference in Populations of KillifishFundulus heteroclitus. Physiological and Biochemical Zoology, 2009, 82, 776-786.	1.5	61
11	Transcriptional Response to Acute Thermal Exposure in Juvenile Chinook Salmon Determined by RNAseq. G3: Genes, Genomes, Genetics, 2015, 5, 1335-1349.	1.8	61
12	Combined effects of warming and hypoxia on early life stage Chinook salmon physiology and development. , 2019, 7, coy078.		56
13	Linking transcriptional responses to organismal toleranceÂreveals mechanisms of thermal sensitivity inÂaÂmesothermal endangered fish. Molecular Ecology, 2015, 24, 4960-4981.	3.9	51
14	High thermal tolerance of a rainbow trout population near its southern range limit suggests local thermal adjustment. , 2016, 4, cow057.		49
15	Chronic exposures to low and high concentrations of ibuprofen elicit different gene response patterns in a euryhaline fish. Environmental Science and Pollution Research, 2015, 22, 17397-17413.	5.3	47
16	Sublethal salinity stress contributes to habitat limitation in an endangered estuarine fish. Evolutionary Applications, 2016, 9, 963-981.	3.1	47
17	Turbidity and Salinity Affect Feeding Performance and Physiological Stress in the Endangered Delta Smelt. Integrative and Comparative Biology, 2013, 53, 620-634.	2.0	46
18	Coupled Downscaled Climate Models and Ecophysiological Metrics Forecast Habitat Compression for an Endangered Estuarine Fish. PLoS ONE, 2016, 11, e0146724.	2.5	46

#	Article	IF	Citations
19	The Onset Temperature of the Heat-Shock Response and Whole-Organism Thermal Tolerance Are Tightly Correlated in both Laboratory-Acclimated and Field-Acclimatized Tidepool Sculpins (Oligocottus maculosus). Physiological and Biochemical Zoology, 2011, 84, 341-352.	1.5	45
20	Unusual aerobic performance at high temperatures in juvenile Chinook salmon,Oncorhynchus tshawytscha. , 2017, 5, cow067.		45
21	Is Extinction Inevitable for Delta Smelt and Longfin Smelt? An Opinion and Recommendations for Recovery. San Francisco Estuary and Watershed Science, 2017, 15, .	0.4	41
22	Gene expression responses of threespine stickleback to salinity: implications for salt-sensitive hypertension. Frontiers in Genetics, 2014, 5, 312.	2.3	39
23	Divergent transcriptomic signatures in response to salinity exposure in two populations of an estuarine fish. Evolutionary Applications, 2019, 12, 1212-1226.	3.1	38
24	Goodbye to â€œRough Fishâ€• Paradigm Shift in the Conservation of Native Fishes. Fisheries, 2021, 46, 605-616.	0.8	38
25	Juvenile Ribbontail Stingray, Taeniura lymma (ForsskÃ¥l, 1775) (Chondrichthyes, Dasyatidae), demonstrate a unique suite of physiological adaptations to survive hyperthermic nursery conditions. Hydrobiologia, 2013, 701, 37-49.	2.0	35
26	Larval green and white sturgeon swimming performance in relation to water-diversion flows. , 2014, 2, cou031-cou031.		35
27	Effects of acoustic tagging on juvenile green sturgeon incision healing, swimming performance, and growth. Environmental Biology of Fishes, 2014, 97, 647-658.	1.0	34
28	Antarctic emerald rockcod have the capacity to compensate for warming when uncoupled from <scp>CO</scp>₂â€•acidification. Global Change Biology, 2018, 24, e655-e670.	9.5	34
29	Development of optimum feeding rate model for white sturgeon (Acipenser transmontanus). Aquaculture, 2014, 433, 411-420.	3.5	31
30	One size does not fit all: variation in thermal eco-physiology among Pacific salmonids. Reviews in Fish Biology and Fisheries, 2021, 31, 95-114.	4.9	30
31	Tilapia (Oreochromis mossambicus) brain cells respond to hyperosmotic challenge by inducingmyo-inositol biosynthesis. Journal of Experimental Biology, 2013, 216, 4615-25.	1.7	29
32	Local adaptation to osmotic environment in killifish, Fundulus heteroclitus, is supported by divergence in swimming performance but not by differences in excess post-exercise oxygen consumption or aerobic scope. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 196, 11-19.	1.8	29
33	Physiological stress biomarkers reveal stocking density effects in late larval Delta Smelt (Hypomesus) Tj ETQq1 1 0.784314 rgBT /Overlo	3.5	29
34	One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. , 2021, 9, coab009.		29
35	Multiple sub-lethal thresholds for cellular responses to thermal stressors in an estuarine fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 225, 33-45.	1.8	28
36	Effect of Nutritional Status on the Osmoregulation of Green Sturgeon (Acipenser) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (medi	1.5	27

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37	Effects of feed restriction on the upper temperature tolerance and heat shock response in juvenile green and white sturgeon. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 198, 87-95.	1.8	27
38	Consequences of temperature and temperature variability on swimming activity, group structure, and predation of endangered delta smelt. Freshwater Biology, 2019, 64, 2156-2175.	2.4	27
39	Unscreened Water-Diversion Pipes Pose an Entrainment Risk to the Threatened Green Sturgeon, Acipenser medirostris. PLoS ONE, 2014, 9, e86321.	2.5	26
40	Calibrating temperature reconstructions from fish otolith oxygen isotope analysis for California's critically endangered Delta Smelt. Rapid Communications in Mass Spectrometry, 2019, 33, 1207-1220.	1.5	26
41	Reframing conservation physiology to be more inclusive, integrative, relevant and forward-looking: reflections and a horizon scan. , 2020, 8, coaa016.		25
42	Juvenile green sturgeon (Acipenser medirostris) and white sturgeon (Acipenser) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (flume. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1030-1038.	1.4	23
43	Foraging and metabolic consequences of semi-anadromy for an endangered estuarine fish. PLoS ONE, 2017, 12, e0173497.	2.5	22
44	Assessments at multiple levels of biological organization allow for an integrative determination of physiological tolerances to turbidity in an endangered fish species. , 2016, 4, cow004.		21
45	Asymmetric Thermal Acclimation Responses Allow Sheepshead MinnowCyprinodon variegatusto Cope with Rapidly Changing Temperatures. Physiological and Biochemical Zoology, 2014, 87, 805-816.	1.5	20
46	Sensitivities of an endemic, endangered California smelt and two non-native fishes to serial increases in temperature and salinity: implications for shifting community structure with climate change. , 2019, 7, coy076.		20
47	Plastic responses to diel thermal variation in juvenile green sturgeon, Acipenser medirostris. Journal of Thermal Biology, 2018, 76, 147-155.	2.5	19
48	Differential regulation of select osmoregulatory genes and Na+/K+-ATPase paralogs may contribute to population differences in salinity tolerance in a semi-anadromous fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 240, 110584.	1.8	19
49	Assessing Juvenile Chinook Salmon Behavior and Entrainment Risk near Unscreened Water Diversions: Large Flume Simulations. Transactions of the American Fisheries Society, 2013, 142, 130-142.	1.4	18
50	Assessment of multiple stressors on the growth of larval green sturgeon Acipenser medirostris : implications for recruitment of early lifeâ€history stages. Journal of Fish Biology, 2018, 93, 952-960.	1.6	18
51	Bifenthrin exposure causes hyperactivity in early larval stages of an endangered fish species at concentrations that occur during their hatching season. Aquatic Toxicology, 2020, 228, 105611.	4.0	16
52	Exposure to permethrin or chlorpyrifos causes differential dose- and time-dependent behavioral effects at early larval stages of an endangered teleost species. Endangered Species Research, 2021, 44, 89-103.	2.4	16
53	Can behavioral fish-guidance devices protect juvenile Chinook salmon (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Fisheries and Aquatic Sciences, 2014, 71, 1209-1219.	1.4	15
54	Effects of feed restriction on salinity tolerance in white sturgeon (Acipenser transmontanus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 188, 156-167.	1.8	15

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55	Stressor interactions in freshwater habitats: Effects of cold water exposure and food limitation on earlyâ€life growth and upper thermal tolerance in white sturgeon, Acipenser transmontanus. Freshwater Biology, 2019, 64, 348-358.	2.4	14
56	Juvenile rockfish show resilience to CO2-acidification and hypoxia across multiple biological scales. , 2018, 6, coy038.		14
57	Transcriptional flexibility during thermal challenge corresponds with expanded thermal tolerance in an invasive compared to native fish. Evolutionary Applications, 2021, 14, 931-949.	3.1	14
58	Fish-protection devices at unscreened water diversions can reduce entrainment: evidence from behavioural laboratory investigations. , 2015, 3, cov040.		13
59	Changes in Menidia beryllina Gene Expression and In Vitro Hormone-Receptor Activation After Exposure to Estuarine Waters Near Treated Wastewater Outfalls. Archives of Environmental Contamination and Toxicology, 2016, 71, 210-223.	4.1	13
60	Bridging animal personality with space use and resource use in a free-ranging population of an asocial ground squirrel. Animal Behaviour, 2021, 180, 291-306.	1.9	13
61	Developmental staging and salinity tolerance in embryos of the delta smelt, Hypomesus transpacificus. Aquaculture, 2019, 511, 634191.	3.5	12
62	Differential sensitivity to warming and hypoxia during development and long-term effects of developmental exposure in early life stage Chinook salmon. , 2021, 9, coab054.		12
63	Effects of nutritional deprivation on juvenile green sturgeon growth and thermal tolerance. Environmental Biology of Fishes, 2016, 99, 145-159.	1.0	11
64	Integrating physiological data with the conservation and management of fishes: a meta-analytical review using the threatened green sturgeon (Acipenser medirostris). , 2019, 7, coz035.		11
65	Sturgeon in the Sacramentoâ€“San Joaquin Watershed: New Insights to Support Conservation and Management. San Francisco Estuary and Watershed Science, 2015, 13, .	0.4	9
66	Impact of Nutrition and Salinity Changes on Biological Performances of Green and White Sturgeon. PLoS ONE, 2015, 10, e0122029.	2.5	9
67	Experimental assessment of predation risk for juvenile green sturgeon, Acipenser medirostris, by two predatory fishes. Journal of Applied Ichthyology, 2020, 36, 14-24.	0.7	9
68	Geochemical Tools Identify the Origins of Chinook Salmon Returning to a Restored Creek. Fisheries, 2021, 46, 22-32.	0.8	9
69	Effects of temperature on hatching and growth performance of embryos and yolk-sac larvae of a threatened estuarine fish: Longfin smelt (Spirinchus thaleichthys). Aquaculture, 2021, 537, 736502.	3.5	9
70	Efficacy of a sensory deterrent and pipe modifications in decreasing entrainment of juvenile green sturgeon (Acipenser medirostris) at unscreened water diversions. , 2014, 2, cou056-cou056.		8
71	Temperature preferences of hardhead Mylopharodon conocephalus and rainbow trout Oncorhynchus mykiss in an annular chamber. Environmental Biology of Fishes, 2014, 97, 865-873.	1.0	8
72	Interannual variation in connectivity and comparison of effective population size between two splittail (Pogonichthys macrolepidotus) populations in the San Francisco Estuary. Conservation Genetics, 2015, 16, 385-398.	1.5	8

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73	Individual habitat use and behavior of acoustically-tagged juvenile green sturgeon in the Sacramento-San Joaquin Delta. Environmental Biology of Fishes, 2019, 102, 1025-1037.	1.0	8
74	Applying a simplified energy-budget model to explore the effects of temperature and food availability on the life history of green sturgeon (Acipenser medirostris). Ecological Modelling, 2019, 395, 1-10.	2.5	8
75	Historic drought influences outmigration dynamics of juvenile fall and spring-run Chinook Salmon. Environmental Biology of Fishes, 2020, 103, 543-559.	1.0	8
76	Modified Water Diversion Structures Can Behaviorally Deter Juvenile Chinook Salmon from Entrainment. Transactions of the American Fisheries Society, 2015, 144, 1070-1080.	1.4	7
77	Inter-population differences in salinity tolerance and osmoregulation of juvenile wild and hatchery-born Sacramento splittail. , 2016, 4, cov063.		7
78	Juvenile and adult hardhead Mylopharodon conocephalus oxygen consumption rates: effects of temperature and swimming velocity. Environmental Biology of Fishes, 2015, 98, 585-596.	1.0	6
79	Behavioural guidance of Chinook salmon smolts: the variable effects of LED spectral wavelength and strobing frequency. , 2018, 6, coy032.		6
80	Thermal niche adaptations of common mudskipper (Periophthalmus kalolo) and barred mudskipper (Periophthalmus argentilineatus) in air and water. Journal of Thermal Biology, 2019, 81, 170-177.	2.5	5
81	Behavioral Response of Juvenile Chinook Salmon to Surgical Implantation of Microâ€acoustic Transmitters. Transactions of the American Fisheries Society, 2019, 148, 480-492.	1.4	5
82	Effects of temperature on hardhead minnow (Mylopharodon conocephalus) blood-oxygen equilibria. Environmental Biology of Fishes, 2013, 96, 1389-1397.	1.0	4
83	Behavioral responses of juvenile white sturgeon (Acipenser transmontanus) to manipulations of nutritional state and predation risk. Environmental Biology of Fishes, 2019, 102, 817-827.	1.0	4
84	Ontogenetic patterns in the calcification and element incorporation in fin rays of age-0 White Sturgeon. Environmental Biology of Fishes, 2020, 103, 1401-1418.	1.0	4
85	Spatial Heterogeneity in Prey Availability, Feeding Success, and Dietary Selectivity for the Threatened Longfin Smelt. Estuaries and Coasts, 2022, 45, 1766-1779.	2.2	4
86	Swimming behavior of emigrating Chinook Salmon smolts. PLoS ONE, 2022, 17, e0263972.	2.5	4
87	Growth, osmoregulation and ionoregulation of longfin smelt (Spirinchus thaleichthys) yolk-sac larvae at different salinities. , 2022, 10, .		4
88	Transcriptomic screening of the innate immune response in delta smelt during an Ichthyophthirius multifiliis infection. Aquaculture, 2017, 473, 80-88.	3.5	3
89	The effect of size on juvenile green sturgeon (Acipenser medirostris) behavior near water-diversion fish screens. Environmental Biology of Fishes, 2018, 101, 67-77.	1.0	3
90	Use of a hydrodynamic model to examine behavioral response of broadnose sevengill sharks (Notorynchus cepedianus) to estuarine tidal flow. Environmental Biology of Fishes, 2019, 102, 1149-1159.	1.0	3

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91	Physiological consequences of rising water salinity for a declining freshwater turtle. , 2019, 7, coz054.		3
92	Managed and unmanaged whale mortality in the California Current Ecosystem. Marine Policy, 2022, 140, 105039.	3.2	3
93	Native Chinook salmon <scp>Oncorhynchus tshawytscha</scp> and nonâ€native brook trout <scp>Salvelinus fontinalis</scp> prefer similar water temperatures. Journal of Fish Biology, 2018, 93, 1000-1004.	1.6	2
94	Key transitions in morphological development improve age estimates in white sturgeon Acipenser transmontanus. Journal of Fish Biology, 2019, 94, 815-819.	1.6	2
95	Warming, not CO2-acidified seawater, alters otolith development of juvenile Antarctic emerald rockcod (Trematomus bernacchii). Polar Biology, 2021, 44, 1917-1923.	1.2	2
96	Managed Wetlands Can Benefit Juvenile Chinook Salmon in a Tidal Marsh. Estuaries and Coasts, 2021, 44, 1440-1453.	2.2	2
97	Development and Evaluation of a Chinook Salmon Smolt Swimming Behavior Model. Water (Switzerland), 2021, 13, 2904.	2.7	2
98	Biogeochemical processes create distinct isotopic fingerprints to track floodplain rearing of juvenile salmon. PLoS ONE, 2021, 16, e0257444.	2.5	2
99	Inter-population differences in salinity tolerance of adult wild Sacramento splittail: osmoregulatory and metabolic responses to salinity. , 2020, 8, coaa098.		2
100	Movement patterns of juvenile green sturgeon (Acipenser medirostris) in the San Francisco Bay Estuary. Environmental Biology of Fishes, 2022, 105, 1749-1763.	1.0	2
101	Survival of a threatened salmon is linked to spatial variability in river conditions. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 2056-2071.	1.4	2
102	Hydraulics Near Unscreened Diversion Pipes in Open Channels: Large Flume Experiments. Journal of the American Water Resources Association, 2017, 53, 431-441.	2.4	1
103	Juvenile Chinook salmon use of sandbar willows in a large-scale, simulated riparian floodplain: microhabitat and energetics. Environmental Biology of Fishes, 2021, 104, 867-879.	1.0	1
104	Elevating the impact of conservation physiology by building a community devoted to excellence, transparency, ethics, integrity and mutual respect. , 2022, 10, coac015.		1
105	Design, Implementation, and Deployment of TempMesh: A Wireless Mesh Network to Aggregate River-Temperature Data. , 2020, , .		0
106	Epidermal cell cultures from white and green sturgeon (Acipenser transmontanus and medirostris): Expression of TGM1-like transglutaminases and CYP4501A. PLoS ONE, 2022, 17, e0265218.	2.5	0