E Don Stevens

List of Publications by Year
in descending order

104 papers	2,935 citations	172457 29 h-index	197818 49 g-index
104 all docs	104 docs citations	104 times ranked	2199 citing authors

#	Article	IF	Citations
1	Factors affecting liver mitochondrial hydrogen peroxide emission. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2022, 259, 110713.	1.6	3
2	Copper modulates heart mitochondrial H2O2 emission differently during fatty acid and pyruvate oxidation. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 254, 109267.	2.6	2
3	Modulation of mitochondrial site-specific hydrogen peroxide efflux by exogenous stressors. Free Radical Biology and Medicine, 2021, 164, 439-456.	2.9	13
4	A Local Analgesic, Lidocaine, Did Not Affect Shortâ€Term Welfare during Electroanesthesia of a Teleost Fish. Transactions of the American Fisheries Society, 2021, 150, 477-489.	1.4	2
5	Temperature rise and copper exposure reduce heart mitochondrial reactive oxygen species scavenging capacity. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 243, 108999.	2.6	3
6	Anoxia-reoxygenation alters H2O2 efflux and sensitivity of redox centers to copper in heart mitochondria. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 248, 109111.	2.6	1
7	Adamantane carboxylic acids demonstrate mitochondrial toxicity consistent with oil sands-derived naphthenic acids. Environmental Advances, 2021, 5, 100092.	4.8	5
8	Anoxia-reoxygenation modulates cadmium-induced liver mitochondrial reactive oxygen species emission during oxidation of glycerol 3-phosphate. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2021, 252, 109227.	2.6	1
9	Welfare of aquatic animals: where things are, where they are going, and what it means for research, aquaculture, recreational angling, and commercial fishing. ICES Journal of Marine Science, 2019, 76, 82-92.	2.5	70
10	On the Electroimmobilization of Fishes for Research and Practice: Opportunities, Challenges, and Research Needs. Fisheries, 2019, 44, 576-585.	0.8	31
11	Evaluation of tissue changes following intramuscular infiltration of lidocaine in rainbow trout Oncorhynchus mykiss. Journal of Fish Biology, 2018, 92, 888-900.	1.6	5
12	Lack of postexposure analgesic efficacy of low concentrations of eugenol in zebrafish. Veterinary Anaesthesia and Analgesia, 2018, 45, 48-56.	0.6	11
13	Oil Sands Derived Naphthenic Acids Are Oxidative Uncouplers and Impair Electron Transport in Isolated Mitochondria. Environmental Science & Technology, 2018, 52, 10803-10811.	10.0	16
14	Updated Review of Fish Analgesia. Journal of the American Association for Laboratory Animal Science, 2018, 57, 5-12.	1.2	19
15	Problems with equating thermal preference with â€˜emotional feverâ€™ and sentience: comment on â€˜Fish can show emotional fever: stress-induced hyperthermia in zebrafishâ€™ by Rey et al . (2015). Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20160681.	2.6	6
16	Responses of larval zebrafish to low pH immersion assay. Comment on Lopez-Luna et al.. Journal of Experimental Biology, 2017, 220, 3191-3192.	1.7	9
17	Mitochondrial transition ROS spike (mTRS) results from coordinated activities of complex I and nicotinamide nucleotide transhydrogenase. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 955-965.	1.0	18
18	Zinc and calcium alter the relationship between mitochondrial respiration, ROS and membrane potential in rainbow trout (Oncorhynchus mykiss) liver mitochondria. Aquatic Toxicology, 2017, 189, 170-183.	4.0	22

#	Article	IF	Citations
19	Combined effects of cadmium, temperature and hypoxia-reoxygenation on mitochondrial function in rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2017, 182, 129-141.	4.0	28
20	Uses and Doses of Local Anesthetics in Fish, Amphibians, and Reptiles. Journal of the American Association for Laboratory Animal Science, 2017, 56, 244-253.	1.2	12
21	Stress is not pain. Comment on Elwood and Adams (2015) â€˜Electric shock causes physiological stress responses in shore crabs, consistent with prediction of painâ€™. Biology Letters, 2016, 12, 20151006.	2.3	15
22	Bioenergetic and volume regulatory effects of mitoKATP channel modulators protect against hypoxia-reoxygenation induced mitochondrial dysfunction. Journal of Experimental Biology, 2016, 219, 2743-51.	1.7	8
23	Hypoxia-reoxygenation differentially alters the thermal sensitivity of complex I basal and maximal mitochondrial oxidative capacity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 201, 87-94.	1.8	18
24	Copper and hypoxia modulate transcriptional and mitochondrial functional-biochemical responses in warm acclimated rainbow trout (Oncorhynchus mykiss). Environmental Pollution, 2016, 211, 291-306.	7.5	18
25	Alterations in mitochondrial electron transport system activity in response to warm acclimation, hypoxia-reoxygenation and copper in rainbow trout, Oncorhynchus mykiss. Aquatic Toxicology, 2015, 165, 51-63.	4.0	33
26	Effects of copper, hypoxia and acute temperature shifts on mitochondrial oxidation in rainbow trout (Oncorhynchus mykiss) acclimated to warm temperature. Aquatic Toxicology, 2015, 169, 46-57.	4.0	30
27	Zinc and calcium modulate mitochondrial redox state and morphofunctional integrity. Free Radical Biology and Medicine, 2015, 84, 142-153.	2.9	18
28	Modulation of cadmium-induced mitochondrial dysfunction and volume changes by temperature in rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2015, 158, 75-87.	4.0	29
29	Hypoxia-cadmium interactions on rainbow trout (Oncorhynchus mykiss) mitochondrial bioenergetics: attenuation of hypoxia-induced proton leak by low doses of cadmium. Journal of Experimental Biology, 2014, 217, 831-40.	1.7	27
30	Effect of TRIS and Bicarbonate as Buffers on Anesthetic Efficacy of Tricaine Methane Sulfonate in Zebrafish (Danio rerio). Zebrafish, 2014, 11, 590-596.	1.1	6
31	Can fish really feel pain?. Fish and Fisheries, 2014, 15, 97-133.	5.3	177
32	Interactions of copper and thermal stress on mitochondrial bioenergetics in rainbow trout, Oncorhynchus mykiss. Aquatic Toxicology, 2014, 157, 10-20.	4.0	29
33	Copper Alters the Effect of Temperature on Mitochondrial Bioenergetics in Rainbow Trout, Oncorhynchus mykiss. Archives of Environmental Contamination and Toxicology, 2014, 66, 430-440.	4.1	11
34	Differential Inhibition of Electron Transport Chain Enzyme Complexes by Cadmium and Calcium in Isolated Rainbow Trout (Oncorhynchus mykiss) Hepatic Mitochondria. Toxicological Sciences, 2012, 127, 110-119.	3.1	39
35	Features of cadmium and calcium uptake and toxicity in rainbow trout (Oncorhynchus mykiss) mitochondria. Toxicology in Vitro, 2012, 26, 164-173.	2.4	22
36	The doseâ€“response relation for the antinociceptive effect of morphine in a fish, rainbow trout. Journal of Veterinary Pharmacology and Therapeutics, 2012, 35, 563-570.	1.3	24

#	Article	IF	Citations
37	Cadmium- and calcium-mediated toxicity in rainbow trout (Oncorhynchus mykiss) in vivo: Interactions on fitness and mitochondrial endpoints. Chemosphere, 2011, 85, 1604-1613.	8.2	17
38	A Novel Behavioral Fish Model of Nociception for Testing Analgesics. Pharmaceuticals, 2011, 4, 665-680.	3.8	56
39	Reciprocal enhancement of uptake and toxicity of cadmium and calcium in rainbow trout (Oncorhynchus mykiss) liver mitochondria. Aquatic Toxicology, 2010, 96, 319-327.	4.0	26
40	The effects of the acetic acid â€œpainâ€•test on feeding, swimming, and respiratory responses of rainbow trout (Oncorhynchus mykiss): A critique on Newby and Stevens (2008)â€”Response. Applied Animal Behaviour Science, 2009, 116, 97-99.	1.9	7
41	Atypical swimbladders of lake charr, Salvelinus namaycush, from Great Slave Lake, Northwest Territories, Canada. Environmental Biology of Fishes, 2008, 83, 91-98.	1.0	1
42	Pharmacokinetics of morphine and its metabolites in freshwater rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.3	13
43	The effects of the acetic acid â€œpainâ€•test on feeding, swimming, and respiratory responses of rainbow trout (Oncorhynchus mykiss). Applied Animal Behaviour Science, 2008, 114, 260-269.	1.9	21
44	IN VIVOBLOOD AND GUTS PHYSIOLOGY IN FISHES. Journal of Experimental Biology, 2008, 211, 1521-1523.	1.7	0
45	Cardiorespiratory effects and efficacy of morphine sulfate in winter flounder (Pseudopleuronectes) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	25
46	Parameters influencing the dissolved oxygen in the boundary layer of rainbow trout (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	39
47	Passive Integrated Transponder (PIT) Tagging Did Not Negatively Affect the Short-Term Feeding Behavior or Swimming Performance of Juvenile Rainbow Trout. Transactions of the American Fisheries Society, 2007, 136, 341-345.	1.4	31
48	Comparative Gas Bladder Anatomy of a Deepwater Cisco and a Shallowwater Cisco: Implications for Buoyancy at Depth. Journal of Great Lakes Research, 2007, 33, 505-511.	1.9	4
49	Aspects of morphine chemistry important to persons working with cold-blooded animals, especially fish. Comparative Medicine, 2007, 57, 161-6.	1.0	5
50	Energy expenditure during hatching in rainbow trout (Oncorhynchus mykiss) embryos. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1405-1413.	1.4	23
51	Pharmacokinetics of morphine in fish: Winter flounder (Pseudopleuronectes americanus) and seawater-acclimated rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 143, 275-283.	2.6	21
52	Removal of the chorion before hatching results in increased movement and accelerated growth in rainbow trout (Oncorhynchus mykiss)embryos. Journal of Experimental Biology, 2006, 209, 1874-1882.	1.7	22
53	Gut size in GH-transgenic coho salmon is enhanced by both the GHtransgene and increased food intake. Journal of Fish Biology, 2005, 66, 1633-1648.	1.6	36
54	The effect of oxygen on the growth of Oncorhynchus mykiss embryos with and without a chorion. Journal of Fish Biology, 2005, 67, 1544-1551.	1.6	38

#	Article	IF	Citations
55	Expression of Four Glutamine Synthetase Genes in the Early Stages of Development of Rainbow Trout (Oncorhynchus mykiss) in Relationship to Nitrogen Excretion. Journal of Biological Chemistry, 2005, 280, 20268-20273.	3.4	67
56	Effects of Temperature and Hydrostatic Pressure on Routine Oxygen Uptake of the Bloater (Coregonus hoyi). Journal of Great Lakes Research, 2004, 30, 70-81.	1.9	11
57	Buoyancy Range, Gas Bladder Volume, and Lipid Content of Adult Bloater, Coregonus hoyi Gill, in the Laurentian Great Lakes. Environmental Biology of Fishes, 2003, 68, 175-182.	1.0	14
58	A 2 week routine stretching programme did not prevent contractionâ€induced injury in mouse muscle. Journal of Physiology, 2002, 544, 137-147.	2.9	20
59	A test of biochemical symmorphosis in a heterothermic tissue: bluefin tuna white muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R108-R114.	1.8	9
60	Passive stretching does not protect against acute contraction-induced injury in mouse EDL muscle. Journal of Muscle Research and Cell Motility, 2001, 22, 301-310.	2.0	14
61	Effects of different surgical techniques: Suture material and location of incision site on the behaviour of rainbow trout (Oncorhynchus mykiss). Marine and Freshwater Behaviour and Physiology, 2000, 33, 103-114.	0.9	34
62	Muscle temperature in free-swimming giant Atlantic bluefin tuna (Thunnus thynnus L.). Journal of Thermal Biology, 2000, 25, 419-423.	2.5	29
63	Intestinal morphology in growth hormone transgenic coho salmon. Journal of Fish Biology, 2000, 56, 191-195.	1.6	55
64	The capacity of mdx mouse diaphragm muscle to do oscillatory work. Journal of Physiology, 2000, 522, 457-466.	2.9	33
65	Gill Morphometry in Growth Hormone Transgenic Pacific Coho Salmon, Onchorhynchus kisutch, Differs Markedly from that in GH Transgenic Atlantic Salmon. Environmental Biology of Fishes, 2000, 58, 113-117.	1.0	24
66	Effects of Suture Type and Patterns on Surgical Wound Healing in Rainbow Trout. Transactions of the American Fisheries Society, 2000, 129, 1196-1205.	1.4	68
67	Effects of Suture Type and Patterns on Surgical Wound Healing in Rainbow Trout. , 2000, 129, 1196.		2
68	Wound Healing in Rainbow Trout following Surgical Site Preparation with a Povidoneâ€“Iodine Antiseptic. Journal of Aquatic Animal Health, 1999, 11, 373-382.	1.4	30
69	Gut morphology in growth hormone transgenic Atlantic salmon. Journal of Fish Biology, 1999, 55, 517-526.	1.6	47
70	Gill Morphometry in Growth Hormone Transgenic Atlantic Salmon. Environmental Biology of Fishes, 1999, 54, 405-411.	1.0	31
71	Respiratory metabolism and swimming performance in growth hormone transgenic Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 2028-2035.	1.4	106
72	No evidence for homeoviscous adaptation in a heterothermic tissue: tuna heat exchangers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 275, R818-R823.	1.8	2

#	Article	IF	Citations
73	Effect of phase of stimulation on acute damage caused by eccentric contractions in mouse soleus muscle. Journal of Applied Physiology, 1996, 80, 1958-1962.	2.5	14
74	Effect of temperature and stimulus train duration on the departure from theoretical maximum work in fish muscle. Canadian Journal of Zoology, 1994, 72, 965-969.	1.0	6
75	Pyloric caecal morphology of brook charr, Salvelinus fontinalis, in relation to diet. Environmental Biology of Fishes, 1993, 36, 205-210.	1.0	18
76	Relation between work and power calculated from force-velocity curves to that done during oscillatory work. Journal of Muscle Research and Cell Motility, 1993, 14, 518-526.	2.0	25
77	Effect of stimulus train duration and cycle frequency on the capacity to do work in the pectoral fin muscle of the pumpkinseed sunfish, Lepomis gibbosus. Canadian Journal of Zoology, 1993, 71, 2185-2189.	1.0	13
78	Effect of stimulus frequency and duty cycle on force and work in fish muscle. Canadian Journal of Zoology, 1992, 70, 1135-1139.	1.0	8
79	In vivo pharmacology of spleen contraction in rainbow trout. Canadian Journal of Zoology, 1992, 70, 625-627.	1.0	13
80	Gill morphometry of the red drum, Sciaenops ocellatus. Fish Physiology and Biochemistry, 1992, 10, 169-176.	2.3	13
81	Sprint-training effects on trout (Oncorhynchus mykiss) white muscle structure. Canadian Journal of Zoology, 1991, 69, 2786-2790.	1.0	7
82	Splenectomy impairs aerobic swim performance in trout. Canadian Journal of Zoology, 1991, 69, 2089-2092.	1.0	20
83	Effect of a sprint-training protocol on acceleration performance in rainbow trout (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.0	20
84	The relative changes in isometric force and work during fatigue and recovery in isolated toad sartorius muscle. Canadian Journal of Physiology and Pharmacology, 1989, 67, 1544-1548.	1.4	11
85	Feeding performance of toads at different acclimation temperatures. Canadian Journal of Zoology, 1988, 66, 537-539.	1.0	8
86	Trypsin from Two Strains of Rainbow Trout, Salmo gairdneri, is Influenced Differently by Assay and Acclimation Temperature. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 1664-1667.	1.4	6
87	Contribution of shivering in leg muscles to heat production in Japanese quail. Canadian Journal of Zoology, 1986, 64, 889-892.	1.0	16
88	Bluefin Tuna Warm Their Viscera During Digestion. Journal of Experimental Biology, 1984, 109, 1-20.	1.7	134
89	The Effect of Size and Swimming Speed on Locomotor Kinematics of Rainbow Trout. Journal of Experimental Biology, 1984, 109, 77-95.	1.7	199
90	Effects of step changes in pH on isometric tetanic tension of toad sartorius muscle. Canadian Journal of Physiology and Pharmacology, 1983, 61, 830-835.	1.4	5

#	Article	IF	Citations
91	Energetics of Locomotion in Warm-Bodied Fish. Annual Review of Physiology, 1982, 44, 121-131.	13.1	28
92	The effect of temperature on facilitated oxygen diffusion and its relation to warm tuna muscle. Canadian Journal of Zoology, 1982, 60, 1148-1152.	1.0	10
93	Effect of pH on muscle fatigue in isolated frog sartorius muscle. Canadian Journal of Physiology and Pharmacology, 1980, 58, 568-570.	1.4	5
94	The effect of temperature on tail beat frequency of fish swimming at constant velocity. Canadian Journal of Zoology, 1979, 57, 1628-1635.	1.0	26
95	Fine structure and metabolic adaptation of red and white muscles in tuna. Environmental Biology of Fishes, 1978, 3, 185-191.	1.0	28
96	The partitioning of oxygen uptake from air and from water by the large obligate air-breathing teleost pirarucu (Arapaima gigas). Canadian Journal of Zoology, 1978, 56, 974-976.	1.0	41
97	Swimming energetics of an Amazonian characin in 'black' and 'white' water. Canadian Journal of Zoology, 1978, 56, 983-987.	1.0	7
98	The partitioning of oxygen uptake from air and from water by erythrinids. Canadian Journal of Zoology, 1978, 56, 965-969.	1.0	35
99	Metabolic Rate and Body Temperature in Singing Katydids. Physiological Zoology, 1977, 50, 31-42.	1.5	68
100	The rate of thermal exchange in a teleost, Tilapia mossambica. Canadian Journal of Zoology, 1970, 48, 221-226.	1.0	49
101	The effect of moderate exercise on the regional distribution of blood flow in the rat. Canadian Journal of Physiology and Pharmacology, 1969, 47, 771-780.	1.4	8
102	The effect of exercise on the distribution of blood to various organs in rainbow trout. Comparative Biochemistry and Physiology, 1968, 25, 615-625.	1.1	148
103	Changes in blood pressure, heart rate and breathing rate during moderate swimming activity in rainbow trout. Journal of Experimental Biology, 1967, 46, 307-15.	1.7	106
104	The exchange of oxygen and carbon dioxide across the gills of rainbow trout. Journal of Experimental Biology, 1967, 46, 339-48.	1.7	78