

E Don Stevens

List of Publications by Year in descending order

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104
papers

2,935
citations

172207

29
h-index

197535

49
g-index

104
all docs

104
docs citations

104
times ranked

2199
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Size and Swimming Speed on Locomotor Kinematics of Rainbow Trout. Journal of Experimental Biology, 1984, 109, 77-95.	0.8	199
2	Can fish really feel pain?. Fish and Fisheries, 2014, 15, 97-133.	2.7	177
3	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
4	Bluefin Tuna Warm Their Viscera During Digestion. Journal of Experimental Biology, 1984, 109, 1-20.	0.8	134
5	Respiratory metabolism and swimming performance in growth hormone transgenic Atlantic salmon. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 2028-2035.	0.7	106
6	Changes in blood pressure, heart rate and breathing rate during moderate swimming activity in rainbow trout. Journal of Experimental Biology, 1967, 46, 307-15.	0.8	106
7	The exchange of oxygen and carbon dioxide across the gills of rainbow trout. Journal of Experimental Biology, 1967, 46, 339-48.	0.8	78
8	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.	1.2	70
9	Metabolic Rate and Body Temperature in Singing Katydid. Physiological Zoology, 1977, 50, 31-42.	1.5	68
10	Effects of Suture Type and Patterns on Surgical Wound Healing in Rainbow Trout. Transactions of the American Fisheries Society, 2000, 129, 1196-1205.	0.6	68
11	Expression of Four Glutamine Synthetase Genes in the Early Stages of Development of Rainbow Trout (<i>Oncorhynchus mykiss</i>) in Relationship to Nitrogen Excretion. Journal of Biological Chemistry, 2005, 280, 20268-20273.	1.6	67
12	A Novel Behavioral Fish Model of Nociception for Testing Analgesics. Pharmaceuticals, 2011, 4, 665-680.	1.7	56
13	Intestinal morphology in growth hormone transgenic coho salmon. Journal of Fish Biology, 2000, 56, 191-195.	0.7	55
14	The rate of thermal exchange in a teleost, <i>Tilapia mossambica</i> . Canadian Journal of Zoology, 1970, 48, 221-226.	0.4	49
15	Gut morphology in growth hormone transgenic Atlantic salmon. Journal of Fish Biology, 1999, 55, 517-526.	0.7	47
16	The partitioning of oxygen uptake from air and from water by the large obligate air-breathing teleost pirarucu (<i>Arapaima gigas</i>). Canadian Journal of Zoology, 1978, 56, 974-976.	0.4	41
17	Parameters influencing the dissolved oxygen in the boundary layer of rainbow trout (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Over 0.8 39	0.8	39
18	Differential Inhibition of Electron Transport Chain Enzyme Complexes by Cadmium and Calcium in Isolated Rainbow Trout (<i>Oncorhynchus mykiss</i>) Hepatic Mitochondria. Toxicological Sciences, 2012, 127, 110-119.	1.4	39

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19	The effect of oxygen on the growth of <i>Oncorhynchus mykiss</i> embryos with and without a chorion. <i>Journal of Fish Biology</i> , 2005, 67, 1544-1551.	0.7	38
20	Gut size in GH-transgenic coho salmon is enhanced by both the GHtransgene and increased food intake. <i>Journal of Fish Biology</i> , 2005, 66, 1633-1648.	0.7	36
21	The partitioning of oxygen uptake from air and from water by erythrinids. <i>Canadian Journal of Zoology</i> , 1978, 56, 965-969.	0.4	35
22	Effects of different surgical techniques: Suture material and location of incision site on the behaviour of rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Marine and Freshwater Behaviour and Physiology</i> , 2000, 33, 103-114.	0.4	34
23	The capacity of mdx mouse diaphragm muscle to do oscillatory work. <i>Journal of Physiology</i> , 2000, 522, 457-466.	1.3	33
24	Alterations in mitochondrial electron transport system activity in response to warm acclimation, hypoxia-reoxygenation and copper in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2015, 165, 51-63.	1.9	33
25	Gill Morphometry in Growth Hormone Transgenic Atlantic Salmon. <i>Environmental Biology of Fishes</i> , 1999, 54, 405-411.	0.4	31
26	Passive Integrated Transponder (PIT) Tagging Did Not Negatively Affect the Short-Term Feeding Behavior or Swimming Performance of Juvenile Rainbow Trout. <i>Transactions of the American Fisheries Society</i> , 2007, 136, 341-345.	0.6	31
27	On the Electroimmobilization of Fishes for Research and Practice: Opportunities, Challenges, and Research Needs. <i>Fisheries</i> , 2019, 44, 576-585.	0.6	31
28	Wound Healing in Rainbow Trout following Surgical Site Preparation with a Povidone-Iodine Antiseptic. <i>Journal of Aquatic Animal Health</i> , 1999, 11, 373-382.	0.6	30
29	Effects of copper, hypoxia and acute temperature shifts on mitochondrial oxidation in rainbow trout (<i>Oncorhynchus mykiss</i>) acclimated to warm temperature. <i>Aquatic Toxicology</i> , 2015, 169, 46-57.	1.9	30
30	Muscle temperature in free-swimming giant Atlantic bluefin tuna (<i>Thunnus thynnus</i> L.). <i>Journal of Thermal Biology</i> , 2000, 25, 419-423.	1.1	29
31	Interactions of copper and thermal stress on mitochondrial bioenergetics in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , 2014, 157, 10-20.	1.9	29
32	Modulation of cadmium-induced mitochondrial dysfunction and volume changes by temperature in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2015, 158, 75-87.	1.9	29
33	Fine structure and metabolic adaptation of red and white muscles in tuna. <i>Environmental Biology of Fishes</i> , 1978, 3, 185-191.	0.4	28
34	Energetics of Locomotion in Warm-Bodied Fish. <i>Annual Review of Physiology</i> , 1982, 44, 121-131.	5.6	28
35	Combined effects of cadmium, temperature and hypoxia-reoxygenation on mitochondrial function in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Aquatic Toxicology</i> , 2017, 182, 129-141.	1.9	28
36	Hypoxia-cadmium interactions on rainbow trout (<i>Oncorhynchus mykiss</i>) mitochondrial bioenergetics: attenuation of hypoxia-induced proton leak by low doses of cadmium. <i>Journal of Experimental Biology</i> , 2014, 217, 831-40.	0.8	27

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37	The effect of temperature on tail beat frequency of fish swimming at constant velocity. Canadian Journal of Zoology, 1979, 57, 1628-1635.	0.4	26
38	Reciprocal enhancement of uptake and toxicity of cadmium and calcium in rainbow trout (<i>Oncorhynchus mykiss</i>) liver mitochondria. Aquatic Toxicology, 2010, 96, 319-327.	1.9	26
39	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.	0.9	25
40	Cardiorespiratory effects and efficacy of morphine sulfate in winter flounder (<i>Pseudopleuronectes</i>)	0.3	25
41	Gill Morphometry in Growth Hormone Transgenic Pacific Coho Salmon, <i>Oncorhynchus kisutch</i> , Differs Markedly from that in GH Transgenic Atlantic Salmon. Environmental Biology of Fishes, 2000, 58, 113-117.	0.4	24
42	The dose-response relation for the antinociceptive effect of morphine in a fish, rainbow trout. Journal of Veterinary Pharmacology and Therapeutics, 2012, 35, 563-570.	0.6	24
43	Energy expenditure during hatching in rainbow trout (<i>Oncorhynchus mykiss</i>) embryos. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1405-1413.	0.7	23
44	Removal of the chorion before hatching results in increased movement and accelerated growth in rainbow trout (<i>Oncorhynchus mykiss</i>) embryos. Journal of Experimental Biology, 2006, 209, 1874-1882.	0.8	22
45	Features of cadmium and calcium uptake and toxicity in rainbow trout (<i>Oncorhynchus mykiss</i>) mitochondria. Toxicology in Vitro, 2012, 26, 164-173.	1.1	22
46	Zinc and calcium alter the relationship between mitochondrial respiration, ROS and membrane potential in rainbow trout (<i>Oncorhynchus mykiss</i>) liver mitochondria. Aquatic Toxicology, 2017, 189, 170-183.	1.9	22
47	Pharmacokinetics of morphine in fish: Winter flounder (<i>Pseudopleuronectes americanus</i>) and seawater-acclimated rainbow trout (<i>Oncorhynchus mykiss</i>). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2006, 143, 275-283.	1.3	21
48	The effects of the acetic acid test on feeding, swimming, and respiratory responses of rainbow trout (<i>Oncorhynchus mykiss</i>). Applied Animal Behaviour Science, 2008, 114, 260-269.	0.8	21
49	Splenectomy impairs aerobic swim performance in trout. Canadian Journal of Zoology, 1991, 69, 2089-2092.	0.4	20
50	Effect of a sprint-training protocol on acceleration performance in rainbow trout (<i>Salmo</i>)	0.4	20
51	A 2 week routine stretching programme did not prevent contraction-induced injury in mouse muscle. Journal of Physiology, 2002, 544, 137-147.	1.3	20
52	Updated Review of Fish Analgesia. Journal of the American Association for Laboratory Animal Science, 2018, 57, 5-12.	0.6	19
53	Pyloric caecal morphology of brook charr, <i>Salvelinus fontinalis</i> , in relation to diet. Environmental Biology of Fishes, 1993, 36, 205-210.	0.4	18
54	Zinc and calcium modulate mitochondrial redox state and morphofunctional integrity. Free Radical Biology and Medicine, 2015, 84, 142-153.	1.3	18

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55	Hypoxia-reoxygenation differentially alters the thermal sensitivity of complex I basal and maximal mitochondrial oxidative capacity. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 201, 87-94.	0.8	18
56	Copper and hypoxia modulate transcriptional and mitochondrial functional-biochemical responses in warm acclimated rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Environmental Pollution</i> , 2016, 211, 291-306.	3.7	18
57	Mitochondrial transition ROS spike (mTRS) results from coordinated activities of complex I and nicotinamide nucleotide transhydrogenase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 955-965.	0.5	18
58	Cadmium- and calcium-mediated toxicity in rainbow trout (<i>Oncorhynchus mykiss</i>) in vivo: Interactions on fitness and mitochondrial endpoints. <i>Chemosphere</i> , 2011, 85, 1604-1613.	4.2	17
59	Contribution of shivering in leg muscles to heat production in Japanese quail. <i>Canadian Journal of Zoology</i> , 1986, 64, 889-892.	0.4	16
60	Oil Sands Derived Naphthenic Acids Are Oxidative Uncouplers and Impair Electron Transport in Isolated Mitochondria. <i>Environmental Science & Technology</i> , 2018, 52, 10803-10811.	4.6	16
61	Stress is not pain. Comment on Elwood and Adams (2015) "Electric shock causes physiological stress responses in shore crabs, consistent with prediction of pain". <i>Biology Letters</i> , 2016, 12, 20151006.	1.0	15
62	Effect of phase of stimulation on acute damage caused by eccentric contractions in mouse soleus muscle. <i>Journal of Applied Physiology</i> , 1996, 80, 1958-1962.	1.2	14
63	Passive stretching does not protect against acute contraction-induced injury in mouse EDL muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2001, 22, 301-310.	0.9	14
64	Buoyancy Range, Gas Bladder Volume, and Lipid Content of Adult Bloater, <i>Coregonus hoyi</i> Gill, in the Laurentian Great Lakes. <i>Environmental Biology of Fishes</i> , 2003, 68, 175-182.	0.4	14
65	In vivo pharmacology of spleen contraction in rainbow trout. <i>Canadian Journal of Zoology</i> , 1992, 70, 625-627.	0.4	13
66	Gill morphometry of the red drum, <i>Sciaenops ocellatus</i> . <i>Fish Physiology and Biochemistry</i> , 1992, 10, 169-176.	0.9	13
67	Effect of stimulus train duration and cycle frequency on the capacity to do work in the pectoral fin muscle of the pumpkinseed sunfish, <i>Lepomis gibbosus</i> . <i>Canadian Journal of Zoology</i> , 1993, 71, 2185-2189.	0.4	13
68	Pharmacokinetics of morphine and its metabolites in freshwater rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Journal of Pharmacokinetics and Biopharmaceutics</i> , 1990, 11, 107-115.	0.6	13
69	Modulation of mitochondrial site-specific hydrogen peroxide efflux by exogenous stressors. <i>Free Radical Biology and Medicine</i> , 2021, 164, 439-456.	1.3	13
70	Uses and Doses of Local Anesthetics in Fish, Amphibians, and Reptiles. <i>Journal of the American Association for Laboratory Animal Science</i> , 2017, 56, 244-253.	0.6	12
71	The relative changes in isometric force and work during fatigue and recovery in isolated toad sartorius muscle. <i>Canadian Journal of Physiology and Pharmacology</i> , 1989, 67, 1544-1548.	0.7	11
72	Effects of Temperature and Hydrostatic Pressure on Routine Oxygen Uptake of the Bloater (<i>Coregonus hoyi</i>). <i>Journal of Great Lakes Research</i> , 2004, 30, 70-81.	0.8	11

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73	Copper Alters the Effect of Temperature on Mitochondrial Bioenergetics in Rainbow Trout, <i>Oncorhynchus mykiss</i> . Archives of Environmental Contamination and Toxicology, 2014, 66, 430-440.	2.1	11
74	Lack of postexposure analgesic efficacy of low concentrations of eugenol in zebrafish. Veterinary Anaesthesia and Analgesia, 2018, 45, 48-56.	0.3	11
75	The effect of temperature on facilitated oxygen diffusion and its relation to warm tuna muscle. Canadian Journal of Zoology, 1982, 60, 1148-1152.	0.4	10
76	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.	0.9	9
77	Responses of larval zebrafish to low pH immersion assay. Comment on Lopez-Luna et al.. Journal of Experimental Biology, 2017, 220, 3191-3192.	0.8	9
78	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.	0.7	8
79	Feeding performance of toads at different acclimation temperatures. Canadian Journal of Zoology, 1988, 66, 537-539.	0.4	8
80	Effect of stimulus frequency and duty cycle on force and work in fish muscle. Canadian Journal of Zoology, 1992, 70, 1135-1139.	0.4	8
81	Bioenergetic and volume regulatory effects of mitoKATP channel modulators protect against hypoxia-reoxygenation induced mitochondrial dysfunction. Journal of Experimental Biology, 2016, 219, 2743-51.	0.8	8
82	Swimming energetics of an Amazonian characin in 'black' and 'white' water. Canadian Journal of Zoology, 1978, 56, 983-987.	0.4	7
83	Sprint-training effects on trout (<i>Oncorhynchus mykiss</i>) white muscle structure. Canadian Journal of Zoology, 1991, 69, 2786-2790.	0.4	7
84	The effects of the acetic acid "pain" test on feeding, swimming, and respiratory responses of rainbow trout (<i>Oncorhynchus mykiss</i>): A critique on Newby and Stevens (2008) "Response. Applied Animal Behaviour Science, 2009, 116, 97-99.	0.8	7
85	Trypsin from Two Strains of Rainbow Trout, <i>Salmo gairdneri</i> , is Influenced Differently by Assay and Acclimation Temperature. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 1664-1667.	0.7	6
86	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.	0.4	6
87	Effect of TRIS and Bicarbonate as Buffers on Anesthetic Efficacy of Tricaine Methane Sulfonate in Zebrafish (<i>Danio rerio</i>). Zebrafish, 2014, 11, 590-596.	0.5	6
88	Problems with equating thermal preference with "emotional fever" and sentience: comment on "Fish can show emotional fever: stress-induced hyperthermia in zebrafish" by Rey et al. (2015). Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20160681.	1.2	6
89	Effect of pH on muscle fatigue in isolated frog sartorius muscle. Canadian Journal of Physiology and Pharmacology, 1980, 58, 568-570.	0.7	5
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.	0.7	5

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91	Evaluation of tissue changes following intramuscular infiltration of lidocaine in rainbow trout <i>Oncorhynchus mykiss</i> . <i>Journal of Fish Biology</i> , 2018, 92, 888-900.	0.7	5
92	Adamantane carboxylic acids demonstrate mitochondrial toxicity consistent with oil sands-derived naphthenic acids. <i>Environmental Advances</i> , 2021, 5, 100092.	2.2	5
93	Aspects of morphine chemistry important to persons working with cold-blooded animals, especially fish. <i>Comparative Medicine</i> , 2007, 57, 161-6.	0.4	5
94	Comparative Gas Bladder Anatomy of a Deepwater Cisco and a Shallowwater Cisco: Implications for Buoyancy at Depth. <i>Journal of Great Lakes Research</i> , 2007, 33, 505-511.	0.8	4
95	Temperature rise and copper exposure reduce heart mitochondrial reactive oxygen species scavenging capacity. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 243, 108999.	1.3	3
96	Factors affecting liver mitochondrial hydrogen peroxide emission. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2022, 259, 110713.	0.7	3
97	No evidence for homeoviscous adaptation in a heterothermic tissue: tuna heat exchangers. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 275, R818-R823.	0.9	2
98	A Local Analgesic, Lidocaine, Did Not Affect Short-Term Welfare during Electroanesthesia of a Teleost Fish. <i>Transactions of the American Fisheries Society</i> , 2021, 150, 477-489.	0.6	2
99	Effects of Suture Type and Patterns on Surgical Wound Healing in Rainbow Trout. , 2000, 129, 1196.		2
100	Copper modulates heart mitochondrial H ₂ O ₂ emission differently during fatty acid and pyruvate oxidation. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022, 254, 109267.	1.3	2
101	Atypical swimbladders of lake charr, <i>Salvelinus namaycush</i> , from Great Slave Lake, Northwest Territories, Canada. <i>Environmental Biology of Fishes</i> , 2008, 83, 91-98.	0.4	1
102	Anoxia-reoxygenation alters H ₂ O ₂ efflux and sensitivity of redox centers to copper in heart mitochondria. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 248, 109111.	1.3	1
103	Anoxia-reoxygenation modulates cadmium-induced liver mitochondrial reactive oxygen species emission during oxidation of glycerol 3-phosphate. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 252, 109227.	1.3	1
104	<i>IN VIVO</i> BLOOD AND GUTS PHYSIOLOGY IN FISHES. <i>Journal of Experimental Biology</i> , 2008, 211, 1521-1523.	0.8	0