Jonathan A W Stecyk

List of Publications by Year
in descending order

39 papers	1,418 citations	331670 21 h-index	345221 36 g-index
40 all docs	40 docs citations	40 times ranked	1359 citing authors

#	Article	IF	Citations
1	Life on the edge: thermal optima for aerobic scope of equatorial reef fishes are close to current day temperatures. Global Change Biology, 2014, 20, 1055-1066.	9.5	206
2	Maintained Cardiac Pumping in Anoxic Crucian Carp. Science, 2004, 306, 77-77.	12.6	111
3	Trophic Structure and Community Stability in an Overfished Ecosystem. Science, 2010, 329, 333-336.	12.6	111
4	New insights into the plasticity of gill structure. Respiratory Physiology and Neurobiology, 2012, 184, 214-222.	1.6	108
5	Î±-Adrenergic regulation of systemic peripheral resistance and blood flow distribution in the turtle Trachemys scripta during anoxic submergence at 5Â°C and 21Â°C. Journal of Experimental Biology, 2004, 207, 269-283.	1.7	73
6	Elevated CO2 enhances aerobic scope of a coral reef fish. , 2013, 1, cot023-cot023.		70
7	The heart as a working model to explore themes and strategies for anoxic survival in ectothermic vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 300-312.	1.8	66
8	Chapter 9 The Anoxia-Tolerant Crucian Carp (Carassius Carassius L.). Fish Physiology, 2009, 27, 397-441.	0.8	52
9	Adrenergic control of the cardiovascular system in the turtle<i>Trachemys scripta</i>. Journal of Experimental Biology, 2002, 205, 3335-3345.	1.7	49
10	Differential regulation of AMP-activated kinase and AKT kinase in response to oxygen availability in crucian carp (<i>Carassius carassius</i>). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1803-R1814.	1.8	47
11	Regulation of the Cardiorespiratory System of Common Carp (Cyprinus carpio) during Severe Hypoxia at Three Seasonal Acclimation Temperatures. Physiological and Biochemical Zoology, 2006, 79, 614-627.	1.5	46
12	Adrenergic control of the cardiovascular system in the turtle Trachemys scripta. Journal of Experimental Biology, 2002, 205, 3335-45.	1.7	36
13	Effects of temperature and anoxia upon the performance of in situ perfused trout hearts. Journal of Experimental Biology, 2004, 207, 655-665.	1.7	34
14	Cardiac survival in anoxia-tolerant vertebrates: An electrophysiological perspective. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 339-354.	2.6	31
15	Preconditioning stimuli do not benefit the myocardium of hypoxia-tolerant rainbow trout () Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Environmental Physiology, 2004, 174, 329-340.	1.5	30
16	Re-oxygenation after anoxia induces brain cell death and memory loss in the anoxia-tolerant crucian carp. Journal of Experimental Biology, 2017, 220, 3883-3895.	1.7	30
17	Correlation of cardiac performance with cellular energetic components in the oxygen-deprived turtle heart. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R756-R768.	1.8	28
18	Effect of temperature and prolonged anoxia exposure on electrophysiological properties of the turtle (Trachemys scripta) heart. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R421-R437.	1.8	26

#	Article	IF	Citations
19	Effects of extracellular changes on spontaneous heart rate of normoxia-and anoxia-acclimated turtles (Trachemys scripta). Journal of Experimental Biology, 2007, 210, 421-431.	1.7	25
20	1H-NMR study of the metabolome of an exceptionally anoxia tolerant vertebrate, the crucian carp (Carassius carassius). Metabolomics, 2013, 9, 311-323.	3.0	25
21	Quantification of heat shock protein mRNA expression in warm and cold anoxic turtles (Trachemys) Tj ETQq1 1 0.784314 rgBT /Overlock Part D: Genomics and Proteomics, 2012, 7, 59-72.	1.0	22
22	Air breathing in the Arctic: influence of temperature, hypoxia, activity and restricted air access on respiratory physiology of Alaska blackfish (<i>Dallia pectoralis</i>). Journal of Experimental Biology, 2014, 217, 4387-98.	1.7	22
23	Adenosine does not save the heart of anoxia-tolerant vertebrates during prolonged oxygen deprivation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 961-973.	1.8	21
24	Phylogeny and effects of anoxia on hyperpolarization-activated, cyclic nucleotide-gated channel gene expression in the heart of a primitive chordate, the Pacific Hagfish (<i>eptatretus stoutii</i>). Journal of Experimental Biology, 2013, 216, 4462-72.	1.7	21
25	Effect of anoxia on the electroretinogram of three anoxia-tolerant vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2008, 150, 395-403.	1.8	20
26	Na+/K+-ATPase activity in the anoxic turtle (Trachemys scripta) brain at different acclimation temperature. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 206, 11-16.	1.8	16
27	Vasoactivity of hydrogen sulfide in normoxic and anoxic turtles (Trachemys scripta). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1225-R1239.	1.8	13
28	Cardiovascular Responses to Limiting Oxygen Levels. Fish Physiology, 2017, , 299-371.	0.8	13
29	Temperature-dependence of L-type Ca2+ current in ventricular cardiomyocytes of the Alaska blackfish (Dallia pectoralis). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 845-858.	1.5	11
30	The expression of genes involved in excitatory and inhibitory neurotransmission in turtle (Trachemys) Tj ETQq0 0 0 rgBT /Overlock 10 Tf preparatory cue for anoxia survival. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2019, 30, 55-70.	1.0	11
31	Intrinsic contractile properties of the crucian carp (Carassius carassius) heart during anoxic and acidotic stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1132-R1142.	1.8	9
32	H2S-producing enzymes in anoxia-tolerant vertebrates: Effects of cold acclimation, anoxia exposure and reoxygenation on gene and protein expression. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2020, 243-244, 110430.	1.6	7
33	Cardiophysiological responses of the air-breathing Alaska blackfish to cold acclimation and chronic hypoxic submergence at 5Â°C. Journal of Experimental Biology, 2020, 223, .	1.7	6
34	Contractile performance of the Alaska blackfish (Dallia pectoralis) ventricle: Assessment of the effects of temperature, pacing frequency, the role of the sarcoplasmic reticulum in contraction and adrenergic stimulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 238, 110564.	1.8	5
35	Indirect evidence that anoxia exposure and cold acclimation alter transarcolemmal Ca2+ flux in the cardiac pacemaker, right atrium and ventricle of the red-eared slider turtle (Trachemys scripta). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 261, 111043.	1.8	5
36	The air-breathing Alaska blackfish (Dallia pectoralis) remodels ventricular Ca2+ cycling with chronic hypoxic submergence to maintain ventricular contractility. Current Research in Physiology, 2022, 5, 25-35.	1.7	4

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37	Gene expression of hypoxia-inducible factor (HIF), HIF regulators, and putative HIF targets in ventricle and telencephalon of Trachemys scripta acclimated to 21ÂÂ°C or 5ÂÂ°C and exposed to normoxia, anoxia or reoxygenation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 267, 111167.	1.8	4
38	Does the ventricle limit cardiac contraction rate in the anoxic turtle (Trachemys scripta)? II. In vivo and in vitro assessment of the prevalence of cardiac arrythmia and atrioventricular block. Current Research in Physiology, 2022, 5, 292-301.	1.7	1
39	Does the ventricle limit cardiac contraction rate in the anoxic turtle (Trachemys scripta)? I. Comparison of the intrinsic contractile responses of cardiac chambers to the extracellular changes that accompany prolonged anoxia exposure. Current Research in Physiology, 2022, 5, 312-326.	1.7	1