

# Jonathan A W Stecyk

## List of Publications by Year in descending order

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Version: 2024-02-01

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	The air-breathing Alaska blackfish ( <i>Dallia pectoralis</i> ) remodels ventricular Ca <sup>2+</sup> cycling with chronic hypoxic submergence to maintain ventricular contractility. <i>Current Research in Physiology</i> , 2022, 5, 25-35.	1.7	4
2	Gene expression of hypoxia-inducible factor (HIF), HIF regulators, and putative HIF targets in ventricle and telencephalon of <i>Trachemys scripta</i> acclimated to 21°C or 5°C and exposed to normoxia, anoxia or reoxygenation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 267, 111167.	1.8	4
3	Does the ventricle limit cardiac contraction rate in the anoxic turtle ( <i>Trachemys scripta</i> )? II. In vivo and in vitro assessment of the prevalence of cardiac arrhythmia and atrioventricular block. <i>Current Research in Physiology</i> , 2022, 5, 292-301.	1.7	1
4	Does the ventricle limit cardiac contraction rate in the anoxic turtle ( <i>Trachemys scripta</i> )? I. Comparison of the intrinsic contractile responses of cardiac chambers to the extracellular changes that accompany prolonged anoxia exposure. <i>Current Research in Physiology</i> , 2022, 5, 312-326.	1.7	1
5	Indirect evidence that anoxia exposure and cold acclimation alter transsarcolemmal Ca <sup>2+</sup> flux in the cardiac pacemaker, right atrium and ventricle of the red-eared slider turtle ( <i>Trachemys scripta</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2021, 261, 111043.	1.8	5
6	Cardiophysiological responses of the air-breathing Alaska blackfish to cold acclimation and chronic hypoxic submergence at 5°C. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	6
7	H <sub>2</sub> S-producing enzymes in anoxia-tolerant vertebrates: Effects of cold acclimation, anoxia exposure and reoxygenation on gene and protein expression. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 243-244, 110430.	1.6	7
8	Contractile performance of the Alaska blackfish ( <i>Dallia pectoralis</i> ) ventricle: Assessment of the effects of temperature, pacing frequency, the role of the sarcoplasmic reticulum in contraction and adrenergic stimulation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2019, 238, 110564.	1.8	5
9	The expression of genes involved in excitatory and inhibitory neurotransmission in turtle ( <i>Trachemys</i> ) Tj ETQq1 1 0.784314 rgBT /Over preparatory cue for anoxia survival. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 30, 55-70.	1.0	11
10	Na <sup>+</sup> /K <sup>+</sup> -ATPase activity in the anoxic turtle ( <i>Trachemys scripta</i> ) brain at different acclimation temperature. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 206, 11-16.	1.8	16
11	Re-oxygenation after anoxia induces brain cell death and memory loss in the anoxia-tolerant crucian carp. <i>Journal of Experimental Biology</i> , 2017, 220, 3883-3895.	1.7	30
12	Cardiovascular Responses to Limiting Oxygen Levels. <i>Fish Physiology</i> , 2017, , 299-371.	0.8	13
13	Temperature-dependence of L-type Ca <sup>2+</sup> current in ventricular cardiomyocytes of the Alaska blackfish ( <i>Dallia pectoralis</i> ). <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2015, 185, 845-858.	1.5	11
14	Life on the edge: thermal optima for aerobic scope of equatorial reef fishes are close to current day temperatures. <i>Global Change Biology</i> , 2014, 20, 1055-1066.	9.5	206
15	Air breathing in the Arctic: influence of temperature, hypoxia, activity and restricted air access on respiratory physiology of Alaska blackfish ( <i>Dallia pectoralis</i> ). <i>Journal of Experimental Biology</i> , 2014, 217, 4387-98.	1.7	22
16	<sup>1</sup> H-NMR study of the metabolome of an exceptionally anoxia tolerant vertebrate, the crucian carp ( <i>Carassius carassius</i> ). <i>Metabolomics</i> , 2013, 9, 311-323.	3.0	25
17	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> ). <i>Journal of Experimental Biology</i> , 2013, 216, 4462-72.	1.7	21
18	Elevated CO <sub>2</sub> enhances aerobic scope of a coral reef fish. , 2013, 1, cot023-cot023.		70

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19	Quantification of heat shock protein mRNA expression in warm and cold anoxic turtles ( <i>Trachemys</i> ) Tj ETQq1 1 0.784314 rgBT /Overl Part D: Genomics and Proteomics, 2012, 7, 59-72.	1.0	22
20	New insights into the plasticity of gill structure. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 214-222.	1.6	108
21	Intrinsic contractile properties of the crucian carp ( <i>Carassius carassius</i> ) heart during anoxic and acidotic stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1132-R1142.	1.8	9
22	Trophic Structure and Community Stability in an Overfished Ecosystem. <i>Science</i> , 2010, 329, 333-336.	12.6	111
23	Vasoactivity of hydrogen sulfide in normoxic and anoxic turtles ( <i>Trachemys scripta</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R1225-R1239.	1.8	13
24	Correlation of cardiac performance with cellular energetic components in the oxygen-deprived turtle heart. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R756-R768.	1.8	28
25	Chapter 9 The Anoxia-Tolerant Crucian Carp ( <i>Carassius Carassius</i> L.). <i>Fish Physiology</i> , 2009, 27, 397-441.	0.8	52
26	Effect of anoxia on the electroretinogram of three anoxia-tolerant vertebrates. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2008, 150, 395-403.	1.8	20
27	Cardiac survival in anoxia-tolerant vertebrates: An electrophysiological perspective. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 339-354.	2.6	31
28	Differential regulation of AMP-activated kinase and AKT kinase in response to oxygen availability in crucian carp ( <i>Carassius carassius</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1803-R1814.	1.8	47
29	Effect of temperature and prolonged anoxia exposure on electrophysiological properties of the turtle ( <i>Trachemys scripta</i> ) heart. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R421-R437.	1.8	26
30	Effects of extracellular changes on spontaneous heart rate of normoxia-and anoxia-acclimated turtles ( <i>Trachemys scripta</i> ). <i>Journal of Experimental Biology</i> , 2007, 210, 421-431.	1.7	25
31	The heart as a working model to explore themes and strategies for anoxic survival in ectothermic vertebrates. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 147, 300-312.	1.8	66
32	Adenosine does not save the heart of anoxia-tolerant vertebrates during prolonged oxygen deprivation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 147, 961-973.	1.8	21
33	Regulation of the Cardiorespiratory System of Common Carp ( <i>Cyprinus carpio</i> ) during Severe Hypoxia at Three Seasonal Acclimation Temperatures. <i>Physiological and Biochemical Zoology</i> , 2006, 79, 614-627.	1.5	46
34	±-Adrenergic regulation of systemic peripheral resistance and blood flow distribution in the turtle <i>Trachemys scripta</i> during anoxic submergence at 5°C and 21°C. <i>Journal of Experimental Biology</i> , 2004, 207, 269-283.	1.7	73
35	Effects of temperature and anoxia upon the performance of in situ perfused trout hearts. <i>Journal of Experimental Biology</i> , 2004, 207, 655-665.	1.7	34
36	Maintained Cardiac Pumping in Anoxic Crucian Carp. <i>Science</i> , 2004, 306, 77-77.	12.6	111

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37	Preconditioning stimuli do not benefit the myocardium of hypoxia-tolerant rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Environmental Physiology</i> , 2004, 174, 329-340.	1.5	30
38	Adrenergic control of the cardiovascular system in the turtle <i>Trachemys scripta</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 3335-3345.	1.7	49
39	Adrenergic control of the cardiovascular system in the turtle <i>Trachemys scripta</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 3335-45.	1.7	36