Warren Burggren

List of Publications by Year
in descending order

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240	8,555	41344	69250
papers	citations	49 h-index	77 g-index

243	243	243	4991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epigenetics and transgenerational transfer: a physiological perspective. Journal of Experimental Biology, 2010, 213, 3-16.	1.7	294
2	Disruption of Hemoglobin Oxygen Transport Does Not Impact Oxygen-Dependent Physiological Processes in Developing Embryos of Zebra Fish (Danio rerio). Circulation Research, 1996, 79, 358-362.	4.5	260
3	CUTANEOUS GAS EXCHANGE IN VERTEBRATES: DESIGN, PATTERNS, CONTROL AND IMPLICATIONS. Biological Reviews, 1985, 60, 1-45.	10.4	246
4	Cardiomyopathy in zebrafish due to mutation in an alternatively spliced exon of titin. Nature Genetics, 2002, 30, 205-209.	21.4	243
5	Ontogeny of Cardiovascular and Respiratory Physiology in Lower Vertebrates. Annual Review of Physiology, 1991, 53, 107-135.	13.1	189
6	Epigenetic Inheritance and Its Role in Evolutionary Biology: Re-Evaluation and New Perspectives. Biology, 2016, 5, 24.	2.8	153
7	O₂consumption and heart rate in developing zebrafish (Danio rerio): influence of temperature and ambient O₂. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R505-R513.	1.8	146
8	Changing respiratory importance of gills, lungs and skin during metamorphosis in the bullfrog rana catesbeiana. Respiration Physiology, 1982, 47, 151-164.	2.7	132
9	The Respiratory Transition from Water to Air Breathing During Amphibian Metamorphosis. American Zoologist, 1994, 34, 238-246.	0.7	125
10	Gas Exchange and Transport During Intermittent Breathing in Chelonian Reptiles. Journal of Experimental Biology, 1979, 82, 75-92.	1.7	120
11	Chronic hypoxia alters the physiological and morphological trajectories of developing chicken embryos. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 131, 713-724.	1.8	109
12	Development of physiological regulatory systems: altering the timing of crucial events. Zoology, 2003, 106, 91-99.	1.2	102
13	Growth and metabolism of larval zebrafish: effects of swim training. Journal of Experimental Biology, 2001, 204, 4335-4343.	1.7	101
14	Oxygen uptake and transport during hypoxic exposure in the sturgeon Acipenser transmontanus. Respiration Physiology, 1978, 34, 171-183.	2.7	98
15	Dynamics of epigenetic phenomena: intergenerational and intragenerational phenotype â€˜washoutâ€™. Journal of Experimental Biology, 2015, 218, 80-87.	1.7	98
16	"Air Gulping" Improves Blood Oxygen Transport during Aquatic Hypoxia in the Goldfish Carassius auratus. Physiological Zoology, 1982, 55, 327-334.	1.5	96
17	Hypoxic incubation creates differential morphological effects during specific developmental critical windows in the embryo of the chicken (Gallus gallus). Respiratory Physiology and Neurobiology, 2005, 145, 251-263.	1.6	91
18	Ventricular Haemodynamics in the Monitor Lizard Varanus Exanthematicus: Pulmonary and Systemic Pressure Separation. Journal of Experimental Biology, 1982, 96, 343-354.	1.7	88

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19	Cardiac function and survival are affected by crude oil in larval red drum, Sciaenops ocellatus. Science of the Total Environment, 2017, 579, 797-804.	8.0	87
20	Developmental Critical Windows and Sensitive Periods as Three-Dimensional Constructs in Time and Space. Physiological and Biochemical Zoology, 2015, 88, 91-102.	1.5	85
21	Circulation and respiration in lungfishes (dipnoi). Journal of Morphology, 1986, 190, 217-236.	1.2	84
22	Amphibians as Animal Models for Laboratory Research in Physiology. ILAR Journal, 2007, 48, 260-269.	1.8	84
23	Gill and lung ventilatory responses to steady-stae aquatic hypoxia and hyperoxia in the bullfrog tadpole. Respiration Physiology, 1982, 47, 165-176.	2.7	82
24	What Is the Purpose of the Embryonic Heart Beat? or How Facts Can Ultimately Prevail over Physiological Dogma. Physiological and Biochemical Zoology, 2004, 77, 333-345.	1.5	80
25	â€˜Activeâ€™ regulation of cutaneous exchange by capillary recruitment in amphibians: Experimental evidence and a revised model for skin respiration. Respiration Physiology, 1984, 55, 379-392.	2.7	79
26	Form and Function in Reptilian Circulations. American Zoologist, 1987, 27, 5-19.	0.7	76
27	Biomodal Gas Exchange During Variation in Environmental Oxygen and Carbon Dioxide in the Air Breathing Fish Trichogaster Trichopterus. Journal of Experimental Biology, 1979, 82, 197-213.	1.7	76
28	Growth and metabolism of larval zebrafish: effects of swim training. Journal of Experimental Biology, 2001, 204, 4335-43.	1.7	75
29	Respiratory Responses to Long-Term Hypoxic Stress in the Crayfish Orconectes Virilis. Journal of Experimental Biology, 1974, 60, 195-206.	1.7	74
30	Respiration and Adaptation to the Terrestrial Habitat in the Land Hermit Crab Coenobita Clypeatus. Journal of Experimental Biology, 1979, 79, 265-281.	1.7	74
31	Developmental trajectories, critical windows and phenotypic alteration during cardio-respiratory development. Respiratory Physiology and Neurobiology, 2011, 178, 13-21.	1.6	73
32	Egg yolk environment differentially influences physiological and morphological development of broiler and layer chicken embryos. Journal of Experimental Biology, 2011, 214, 619-628.	1.7	73
33	Parental hypoxic exposure confers offspring hypoxia resistance in zebrafish (Danio rerio). Journal of Experimental Biology, 2012, 215, 4208-16.	1.7	71
34	Epigenetics as a source of variation in comparative animal physiology â€“ or â€“ Lamarck is lookin' pretty good these days. Journal of Experimental Biology, 2014, 217, 682-689.	1.7	71
35	Developmental phenotypic plasticity helps bridge stochastic weather events associated with climate change. Journal of Experimental Biology, 2018, 221, .	1.7	70
36	Comparative cardiovascular physiology: future trends, opportunities and challenges. Acta Physiologica, 2014, 210, 257-276.	3.8	69

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37	Respiratory Physiology of Intestinal Air Breathing in the Teleost Fish Misgurnus Anguillicaudatus. Journal of Experimental Biology, 1987, 133, 371-393.	1.7	67
38	The pulmonary circulation of the chelonian reptile: Morphology, haemodynamics and pharmacology. Journal of Comparative Physiology â–¡ B, 1977, 116, 303-323.	2.0	65
39	A Threeâ€Dimensional Functional Assessment of Heart and Vessel Development in the Larva of the Zebrafish (Danio rerio). Physiological and Biochemical Zoology, 2006, 79, 194-201.	1.5	65
40	A quantitative analysis of ventilation tachycardia and its control in two chelonians, Pseudemys scripta and Testudo graeca. Journal of Experimental Biology, 1975, 63, 367-380.	1.7	62
41	Ontogeny of regulation of gill and lung ventilation in the bullfrog, Rana catesbeiana. Respiration Physiology, 1986, 66, 279-291.	2.7	60
42	Cardiovascular regulation during hypoxia in embryos of the domestic chicken Gallus gallus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R219-R226.	1.8	59
43	Epigenetics in Comparative Biology: Why We Should Pay Attention. Integrative and Comparative Biology, 2014, 54, 7-20.	2.0	59
44	Anaerobic metabolism, gas exchange, and acid-base balance during hypoxic exposure in the channel catfish,Ictalurus punctatus. The Journal of Experimental Zoology, 1980, 213, 405-416.	1.4	57
45	Gas Exchange, Metabolism, and "Ventilation" in Gelatinous Frog Egg Masses. Physiological Zoology, 1985, 58, 503-514.	1.5	56
46	Cardio-respiratory ontogeny during chronic carbon monoxide exposure in the clawed frog Xenopus laevis.. Journal of Experimental Biology, 1998, 201, 1461-1472.	1.7	56
47	The silk cocoon of the silkworm, Bombyx mori: Macro structure and its influence on transmural diffusion of oxygen and water vapor. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 155, 259-263.	1.8	55
48	Metabolism and Ram Gill Ventilation in Juvenile Paddlefish,Polyodon spathula(Chondrostei:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	52
49	Pulmonary Blood Plasma Filtration in Reptiles: A "Wet" Vertebrate Lung?. Science, 1982, 215, 77-78.	12.6	51
50	Metabolic, Ventilatory, and Acid-Base Responses Associated with Specific Dynamic Action in the Toad Bufo marinus. Physiological Zoology, 1995, 68, 192-205.	1.5	51
51	Ventilation in An Aquatic and A Terrestrial Chelonian Reptile. Journal of Experimental Biology, 1978, 72, 165-179.	1.7	51
52	Role of Hypoxia in the Evolution and Development of the Cardiovascular System. Antioxidants and Redox Signaling, 2007, 9, 1339-1352.	5.4	50
53	Phenotypic Switching Resulting From Developmental Plasticity: Fixed or Reversible?. Frontiers in Physiology, 2019, 10, 1634.	2.8	50
54	Acclimation to hypothermic incubation in developing chicken embryos(Gallus domesticus). Journal of Experimental Biology, 2004, 207, 1543-1552.	1.7	49

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55	Challenges and opportunities in developmental integrative physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 184, 113-124.	1.8	47
56	Exposure to Crude Oil Induces Retinal Apoptosis and Impairs Visual Function in Fish. Environmental Science & Technology, 2020, 54, 2843-2850.	10.0	47
57	Assessing physiological complexity. Journal of Experimental Biology, 2005, 208, 3221-3232.	1.7	46
58	Physiological impacts of Deepwater Horizon oil on fish. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 224, 108558.	2.6	46
59	Branchial water- and blood-flow patterns and the structure of the gill of the crayfish Procambarus clarkii. Canadian Journal of Zoology, 1974, 52, 1511-1518.	1.0	45
60	Hemolymph oxygen transport, acid-base status, and hydromineral regulation during dehydration in three terrestrial crabs,Cardisoma,Birgus, andCoenobita. The Journal of Experimental Zoology, 1981, 218, 53-64.	1.4	45
61	Maturation of cardiovascular control mechanisms in the embryonic emu(Dromiceius) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502	1.7	45
62	Gill ventilation in the sturgeon, Acipenser transmontanus: Unusual adaptations for bottom dwelling. Respiration Physiology, 1978, 34, 153-170.	2.7	44
63	Epigenetics in Insects: Mechanisms, Phenotypes and Ecological and Evolutionary Implications. Advances in Insect Physiology, 2017, 53, 1-30.	2.7	42
64	Interruption of cardiac output does not affect short-term growth and metabolic rate in day 3 and 4 chick embryos. Journal of Experimental Biology, 2000, 203, 3831-8.	1.7	42
65	Patterns of form and function in developing hearts: contributions from non-mammalian vertebrates. Cardioscience, 1994, 5, 183-91.	0.5	41
66	Temperature and the Balance between Aerial and Aquatic Respiration in Larvae of Rana berlandieri and Rana catesbeiana. Physiological Zoology, 1983, 56, 263-273.	1.5	40
67	Cardiac design in lower vertebrates: what can phylogeny reveal about ontogeny?. Experientia, 1988, 44, 919-930.	1.2	40
68	COMPARATIVE DEVELOPMENTAL PHYSIOLOGY:An Interdisciplinary Convergence. Annual Review of Physiology, 2005, 67, 203-223.	13.1	40
69	Evolutionary and cardioâ€respiratory physiology of airâ€breathing and amphibious fishes. Acta Physiologica, 2020, 228, e13406.	3.8	40
70	Cardio-respiratory ontogeny during chronic carbon monoxide exposure in the clawed frog Xenopus laevis. Journal of Experimental Biology, 1998, 201, 1461-72.	1.7	40
71	Embryonic Heart Rate in Altricial Birds, the Pigeon (Columba domestica) and the Bank Swallow (Riparia riparia). Physiological Zoology, 1994, 67, 1448-1460.	1.5	39
72	Developing animals flout prominent assumptions of ecological physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2005, 141, 430-439.	1.8	39

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73	A quantitative analysis of ventilation tachycardia and its control in two chelonians, Pseudemys scripta and Testudo graeca. Journal of Experimental Biology, 1975, 63, 367-80.	1.7	39
74	Development of cardiac form and function in ectothermic sauropsids. Journal of Morphology, 2009, 270, 1400-1412.	1.2	37
75	Pulmonary ventilation: perfusion relationships in terrestrial and aquatic chelonian reptiles. Canadian Journal of Zoology, 1977, 55, 2024-2034.	1.0	36
76	Hypoxic level and duration differentially affect embryonic organ system development of the chicken (Gallus gallus). Poultry Science, 2012, 91, 3191-3201.	3.4	36
77	Ventilation in an aquatic and a terrestrial chelonian reptile. Journal of Experimental Biology, 1978, 72, 165-79.	1.7	36
78	Shoaling, boldness, anxiety-like behavior and locomotion in zebrafish (Danio rerio) are altered by acute benzo[a]pyrene exposure. Science of the Total Environment, 2021, 774, 145702.	8.0	35
79	Skin Breathing in Vertebrates. Scientific American, 1985, 253, 126-142.	1.0	34
80	Embryonic control of heart rate: Examining developmental patterns and temperature and oxygenation influences using embryonic avian models. Respiratory Physiology and Neurobiology, 2011, 178, 84-96.	1.6	33
81	Combined effects of elevated temperature and Deepwater Horizon oil exposure on the cardiac performance of larval mahi-mahi, Coryphaena hippurus. PLoS ONE, 2018, 13, e0203949.	2.5	33
82	Upper lethal temperatures of Northern Bobwhite embryos and the thermal properties of their eggs. Poultry Science, 2012, 91, 41-46.	3.4	32
83	Oxygen Uptake during Environmental Temperature Change in Hermit Crabs: Adaptation to Subtidal, Intertidal, and Supratidal Habitats. Physiological Zoology, 1981, 54, 325-333.	1.5	31
84	Respiration and acid-base balance in the salamander,Ambystoma tigrinum: Influence of temperature acclimation and metamorphosis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1981, 144, 241-246.	1.5	31
85	Circulation during intermittent lung ventilation in the garter snake Thamnophis. Canadian Journal of Zoology, 1977, 55, 1720-1725.	1.0	30
86	Arterial Oâ,, Homeostasis during Diving in the Turtle Chelodina longicollis. Physiological Zoology, 1989, 62, 668-686.	1.5	30
87	Continuous measurements of instantaneous heart rate and its fluctuations before and after hatching in chickens. Journal of Experimental Biology, 2000, 203, 895-903.	1.7	30
88	Specific dynamic action and the metabolism of the brachyuran land crabs Ocypode quadrata (Fabricius, 1787), Goniopsis cruentata (Latreille, 1803) and Cardisoma guanhumi Latreille, 1825. Journal of Experimental Marine Biology and Ecology, 1993, 169, 117-130.	1.5	29
89	Heart rate responses to altered ambient oxygen in early (days 3-9) chick embryos in the intact egg. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1999, 169, 85-92.	1.5	29
90	Influence of intermittent breathing on ventricular depolarization patterns in chelonian reptiles.. Journal of Physiology, 1978, 278, 349-364.	2.9	28

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91	Hypoxiaâ€induced developmental plasticity of the gills and airâ€breathing organ of Trichopodus trichopterus. Journal of Fish Biology, 2014, 84, 808-826.	1.6	27
92	Physiological study of larval fishes: challenges and opportunities. Scientia Marina, 2009, 73, 99-110.	0.6	27
93	Cardiac output and peripheral resistance during larval development in the anuran amphibian Xenopus laevis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1995, 269, R1126-R1132.	1.8	26
94	Parental stressor exposure simultaneously conveys both adaptive and maladaptive larval phenotypes through epigenetic inheritance in the zebrafish (Danio rerio). Journal of Experimental Biology, 2019, 222, .	1.7	26
95	Venous Return and Cardiac Filling in Varanid Lizards. Journal of Experimental Biology, 1984, 113, 389-399.	1.7	26
96	Ventilation, Circulation and Their Interactions in the Land Crab, Cardisoma Guanhumi. Journal of Experimental Biology, 1985, 117, 133-154.	1.7	26
97	Comparative cardiovascular development: improving the conceptual framework. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 132, 661-674.	1.8	25
98	Body, eye, and chorioallantoic vessel growth are not dependent on cardiac output level in day 3â€“4 chicken embryos. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R1399-R1406.	1.8	25
99	The interplay of cutaneous water loss, gas exchange and blood flow in the toad, Bufo woodhousei: adaptations in a terrestrially adapted amphibian. Journal of Experimental Biology, 2005, 208, 105-112.	1.7	25
100	Development of endothermic metabolic response in embryos and hatchlings of the emu (Dromaius) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.6	25
101	Morphology and cardiac physiology are differentially affected by temperature in developing larvae of the marine fish mahi-mahi (Coryphaena hippurus). Biology Open, 2017, 6, 800-809.	1.2	25
102	Acclimation to hypothermic incubation in developing chicken embryos(Gallus domesticus). Journal of Experimental Biology, 2004, 207, 1553-1561.	1.7	24
103	Empowering 21st Century Biology. BioScience, 2010, 60, 923-930.	4.9	24
104	Development of hematological respiratory variables in late chicken embryos: The relative importance of incubation time and embryo mass. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 159, 225-233.	1.8	24
105	Acute regulation of hematocrit and blood acidâ€base balance during severe hypoxic challenges in late chicken embryos (Gallus gallus). Respiratory Physiology and Neurobiology, 2012, 184, 86-96.	1.6	24
106	Developmental Changes in Cardiac and Metabolic Physiology of the Direct-Developing Tropical Frog Eleutherodactylus Coqui. Journal of Experimental Biology, 1990, 152, 129-147.	1.7	24
107	Developmental changes in in vivo cardiac performance in the moth Manduca sexta. Journal of Experimental Biology, 2000, 203, 369-78.	1.7	24
108	Pulmonary stretch receptors regulate heart rate and pulmonary blood flow in the turtle, Pseudemys scripta. Comparative Biochemistry and Physiology A, Comparative Physiology, 1977, 58, 185-191.	0.6	23

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109	An Analysis of Scaphognathite Pumping Performance in the Crayfish Orconectes virilis: Compensatory Changes to Acute and Chronic Hypoxic Exposure. Physiological Zoology, 1983, 56, 309-318.	1.5	23
110	Behavioral consequences of dietary exposure to crude oil extracts in the Siamese fighting fish (Betta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.0	23
111	Cardiovascular Function in the Lower Vertebrates. , 1980, , 61-117.		22
112	Genetic, environmental and maternal influences on embryonic cardiac rhythms. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1999, 124, 423-427.	1.8	22
113	Metabolic Allometry during Development and Metamorphosis of the SilkwormBombyx mori: Analyses, Patterns, and Mechanisms. Physiological and Biochemical Zoology, 2010, 83, 215-231.	1.5	22
114	Transgenerational Variation in Metabolism and Life-History Traits Induced by Maternal Hypoxia inDaphnia magna. Physiological and Biochemical Zoology, 2012, 85, 625-634.	1.5	22
115	Cardiovascular Development and Angiogenesis in the Early Vertebrate Embryo. Cardiovascular Engineering and Technology, 2013, 4, 234-245.	1.6	22
116	Cardio-respiratory development in bird embryos: new insights from a venerable animal model. Revista Brasileira De Zootecnia, 2016, 45, 709-728.	0.8	22
117	Cross-resistance in Gulf killifish (Fundulus grandis) populations resistant to dioxin-like compounds. Aquatic Toxicology, 2016, 175, 222-231.	4.0	22
118	Transition of respiratory processes during amphibian metamorphosis: from egg to adult. , 1984, , 31-53.		21
119	Cardiac and Metabolic Physiology of Early Larval Zebrafish (Danio rerio) Reflects Parental Swimming Stamina. Frontiers in Physiology, 2012, 3, 35.	2.8	21
120	The Physiology of the Avian Embryo. , 2015, , 739-766.		21
121	THE EFFECTS OF TEMPERATURE AND WATER AVAILABILITY ON ION AND ACID-BASE BALANCE IN HEMOLYMPH OF THE LAND HERMIT CRABCOENOBITA CLYPEATUS. Biological Bulletin, 1984, 166, 427-445.	1.8	20
122	Cardiovascular responses to diving and their relation to lung and blood oxygen stores in vertebrates. Canadian Journal of Zoology, 1988, 66, 20-28.	1.0	20
123	Interactions of acidâ€“base balance and hematocrit regulation during environmental respiratory gas challenges in developing chicken embryos (Gallus gallus). Respiratory Physiology and Neurobiology, 2012, 183, 135-148.	1.6	20
124	Metanephric kidney development in the chicken embryo: Glomerular numbers, characteristics and perfusion. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 343-350.	1.8	20
125	Environmental stressors and the epigenome. Drug Discovery Today: Technologies, 2014, 12, e3-e8.	4.0	20
126	Parental transgenerational epigenetic inheritance related to dietary crude oil exposure in Danio rerio. Journal of Experimental Biology, 2020, 223, .	1.7	20

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127	Acid-base balance following temperature acclimation in land crabs. The Journal of Experimental Zoology, 1981, 218, 45-52.	1.4	19
128	Factors terminating nonventilatory periods in the turtle, Chelydra serpentina. Respiration Physiology, 1989, 77, 337-349.	2.7	19
129	Cardiac rhythms of late pre-pipped and pipped chick embryos exposed to altered oxygen environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 136, 289-299.	1.8	19
130	Environmental modulation of the onset of air breathing and survival of Betta splendens and Trichopodus trichopterus. Journal of Fish Biology, 2014, 84, 794-807.	1.6	19
131	Developmental cardiorespiratory physiology of the air-breathing tropical gar,Atractosteus tropicus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R689-R701.	1.8	19
132	Metabolic rate and hypoxia tolerance are affected by group interactions and sex in the fruit fly (Drosophila melanogaster): new data and a literature survey. Biology Open, 2017, 6, 471-480.	1.2	19
133	Physiological variability in neonatal armadillo quadruplets: within- and between-litter differences. Journal of Experimental Biology, 2000, 203, 1733-40.	1.7	19
134	Pulmonary fluid balance following pulmocutaneous baroreceptor denervation in the toad. Journal of Applied Physiology, 1986, 61, 331-337.	2.5	18
135	The action of acetylcholine upon heart rate changes markedly with development in bullfrogs. The Journal of Experimental Zoology, 1986, 240, 137-140.	1.4	18
136	Developmental changes in oxygen consumption and hypoxia tolerance in the heat and hypoxiaâ€adapted tabasco line of the Nile tilapia Oreochromis niloticus, with a survey of the metabolic literature for the genus Oreochromis. Journal of Fish Biology, 2019, 94, 732-744.	1.6	18
137	Remodeling the epigenome and (epi)cytoskeleton: a new paradigm for co-regulation by methylation. Journal of Experimental Biology, 2020, 223, .	1.7	18
138	Branchial circulation and gill morphometrics in the sturgeon Acipenser transmontanus, an ancient Chondrosteian fish. Canadian Journal of Zoology, 1979, 57, 2160-2170.	1.0	17
139	Lactate Production, Tissue Distribution, and Elimination following Exhaustive Exercise in Larval and Adult Bullfrogs Rana catesbeiana. Physiological Zoology, 1983, 56, 597-613.	1.5	17
140	Air Exposure and Physiological Compensation in a Tropical Intertidal Chiton,Chiton stokesii(Mollusca: Polyplacophora). Physiological Zoology, 1991, 64, 728-747.	1.5	17
141	Blood pressures and heart rate during larval development in the anuran amphibian Xenopus laevis. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1995, 269, R1120-R1125.	1.8	17
142	Acute regulation of hematocrit and acidâ€“base balance in chicken embryos in response to severe intrinsic hypercapnic hypoxia. Respiratory Physiology and Neurobiology, 2014, 195, 1-10.	1.6	17
143	Methodology for exposing avian embryos to quantified levels of airborne aromatic compounds associated with crude oil spills. Environmental Toxicology and Pharmacology, 2018, 58, 163-169.	4.0	17
144	Cardiovascular shunting in vertebrates: a practical integration of competing hypotheses. Biological Reviews, 2020, 95, 449-471.	10.4	17

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145	A cytoskeletal function for PBRM1 reading methylated microtubules. Science Advances, 2021, 7, .	10.3	17
146	Form and Function of the Vertebrate and Invertebrate Blood-Brain Barriers. International Journal of Molecular Sciences, 2021, 22, 12111.	4.1	17
147	Developmental changes in the acetylcholine influence on heart muscle ofRana catesbeiana: in situ and in vitro effects. The Journal of Experimental Zoology, 1993, 267, 1-8.	1.4	16
148	Cardiac rhythms in prenatal and perinatal emu embryos. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 131, 775-785.	1.8	16
149	Maturation of the homeothermic response of heart rate to altered ambient temperature in developing chick hatchlings (Gallus gallus domesticus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R129-R137.	1.8	16
150	ANG II and baroreflex control of heart rate in embryonic chickens (Gallus gallus domesticus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R855-R863.	1.8	16
151	Cardiovascular Development in Embryonic and Larval Fishes. Fish Physiology, 2017, , 107-184.	0.8	16
152	Heart Performance Determination by Visualization in Larval Fishes: Influence of Alternative Models for Heart Shape and Volume. Frontiers in Physiology, 2017, 8, 464.	2.8	16
153	Interaction of allometry and development in the mouse Mus musculus: heart rate and hematology. Respiration Physiology, 1989, 78, 265-280.	2.7	15
154	Endothermic heart rate response in broiler and White Leghorn chicks (Gallus gallus domesticus) during the first two days of post-hatch life. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 529-535.	1.8	15
155	Implementation of the National Science Foundationâ€™s â€œBroader Impactsâ€• Efficiency Considerations and Alternative Approaches. Social Epistemology, 2009, 23, 221-237.	1.2	15
156	Hematocrit and blood osmolality in developing chicken embryos (Gallus gallus): In vivo and in vitro regulation. Respiratory Physiology and Neurobiology, 2011, 179, 142-150.	1.6	15
157	Chronic hypoxia and hyperoxia modifies morphology and VEGF concentration of the lungs of the developing chicken (Gallus gallus variant domesticus). Respiratory Physiology and Neurobiology, 2015, 219, 85-94.	1.6	15
158	Phenotypic developmental plasticity induced by preincubation egg storage in chicken embryos () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.7	15
159	Cardiorespiratory physiological phenotypic plasticity in developing airâ€breathing anabantid fishes () Tj ETQq1 1 0.784314 rgBT /Over	1.7	15
160	Altered embryonic development in northern bobwhite quail (Colinus virginianus) induced by pre-incubation oscillatory thermal stresses mimicking global warming predictions. PLoS ONE, 2017, 12, e0184670.	2.5	15
161	Effect of experimental ventilation of the skin on cutaneous gas exchange in the bullfrog. Journal of Experimental Biology, 1986, 121, 445-9.	1.7	15
162	Pulmonary diffusing capacity of the bullfrog (Rana catesbeiana). Acta Physiologica Scandinavica, 1981, 113, 485-490.	2.2	14

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163	Role of the Central Circulation in Regulation of Cutaneous Gas Exchange. American Zoologist, 1988, 28, 985-998.	0.7	14
164	Onset and early development of hypoxic ventilatory responses and branchial neuroepithelial cells in Xenopus laevis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 382-391.	1.8	14
165	Reduced Heart Rate and Cardiac Output Differentially Affect Angiogenesis, Growth, and Development in Early Chicken Embryos (Gallus domesticus). Physiological and Biochemical Zoology, 2013, 86, 370-382.	1.5	14
166	Central arterial hemodynamics in larval bullfrogs (Rana catesbeiana): developmental and seasonal influences. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1991, 260, R240-R246.	1.8	13
167	Mass Transport: Circulatory System with Emphasis on Nonendothermic Species. , 2016, 7, 17-66.		13
168	Hypoxiaâ€induced developmental plasticity of larval growth, gill and labyrinth organ morphometrics in two anabantoid fish: The facultative airâ€breather Siamese fighting fish (Betta splendens) and the obligate airâ€breather the blue gourami (Trichopodus trichopterus). Journal of Morphology, 2019, 280, 193-204.	1.2	13
169	Beyond the Chicken: Alternative Avian Models for Developmental Physiological Research. Frontiers in Physiology, 2021, 12, 712633.	2.8	13
170	Factors influencing pulmonary and cutaneous arterial blood flow in the toad, Bufo marinus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1984, 247, R884-R894.	1.8	12
171	Heart Rate and Hemolymph Pressure Responses to Hemolymph Volume Changes in the Land Crab Cardisoma guanhumi: Evidence for "Baroreflex" Regulation. Physiological Zoology, 1990, 63, 167-181.	1.5	12
172	Dynamics of metabolic compensation and hematological changes in chicken (Gallus gallus) embryos exposed to hypercapnia with varying oxygen. Respiratory Physiology and Neurobiology, 2013, 185, 272-280.	1.6	12
173	Salt sensitivity of the morphometry of Artemia franciscana during development: A demonstration of 3-D critical windows. Journal of Experimental Biology, 2015, 219, 571-81.	1.7	12
174	Interspecific Differences in Metabolic Rate and Metabolic Temperature Sensitivity Create Distinct Thermal Ecological Niches in Lizards (Plestiodon). PLoS ONE, 2016, 11, e0164713.	2.5	12
175	Mahiâ€mahi (Coryphaena hippurus) life development: morphological, physiological, behavioral and molecular phenotypes. Developmental Dynamics, 2019, 248, 337-350.	1.8	12
176	Inadequacy of typical physiological experimental protocols for investigating consequences of stochastic weather events emerging from global warming. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 316, R318-R322.	1.8	12
177	Reflex interactions between aerial and aquatic gas exchange organs in larval bullfrogs. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1983, 244, R770-R777.	1.8	11
178	Heart rate responses to cooling in emu hatchlings. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2003, 134, 829-838.	1.8	11
179	Invited review: Development of acid-base regulation in vertebrates. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 236, 110518.	1.8	11
180	Metabolic physiology of the Mayan cichlid fish (Mayaheros uropthalmus): Re-examination of classification as an oxyconformer. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 237, 110538.	1.8	11

#	Article	IF	Citations
181	Allometry of red cell oxygen binding and hematology in larvae of the salamander, Ambystoma tigrinum. Respiration Physiology, 1987, 70, 73-84.	2.7	10
182	Identifying and Evaluating Patterns in Cardiorespiratory Physiology. American Zoologist, 1997, 37, 109-115.	0.7	10
183	Cardiac rhythms in developing emu hatchlings. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 131, 787-795.	1.8	10
184	`Blood-doping' effects on hematocrit regulation and oxygen consumption in late-stage chicken embryos (Gallus gallus). Journal of Experimental Biology, 2008, 211, 883-889.	1.7	10
185	Circulatory changes associated with the closure of the ductus arteriosus in hatching emu (Dromaius) Tj ETQq1 1 0.784314 rgBT /Ove Physiology, 2016, 191, 202-208.	1.8	10
186	Development of blood pressure and cardiac reflexes in the frog Pseudis paradoxsus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1992, 263, R602-R608.	1.8	9
187	Evolution of Cardiovascular Systems and Their Endothelial Linings. , 2007, , 29-49.		9
188	Dynamics of acidâ€“base metabolic compensation and hematological regulation interactions in response to CO2 challenges in embryos of the chicken (Gallus gallus). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 641-649.	1.5	9
189	Hypercapnic thresholds for embryonic acidâ€“base metabolic compensation and hematological regulation during CO2 challenges in layer and broiler chicken strains. Respiratory Physiology and Neurobiology, 2015, 215, 1-12.	1.6	9
190	Dynamics of blood viscosity regulation during hypoxic challenges in the chicken embryo (Gallus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Physiology, 2015, 190, 1-8.	1.8	9
191	Respiration in Phyletically Ancient Fishes. , 1985, , 217-252.		9
192	Central Cardiovascular Function in Amphibians: Qualitative Influences of Phylogeny, Ontogeny, and Season. Advances in Comparative and Environmental Physiology, 1995, , 175-197.	0.5	9
193	Intrapulmonary variation of gas partial pressures and ventilation inequalities in chelonian reptiles. Journal of Comparative Physiology â–¡ B, 1978, 126, 203-209.	2.0	8
194	Fixed patterns of bradycardia during late embryonic development in domestic fowl with C locus mutations. American Journal of Physiology - Heart and Circulatory Physiology, 1995, 268, H56-H60.	3.2	8
195	The actions of the reninâ€“angiotensin system on cardiovascular and osmoregulatory function in embryonic chickens (Gallus gallus domesticus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 178, 37-45.	1.8	8
196	Critical developmental windows for morphology and hematology revealed by intermittent and continuous hypoxic incubation in embryos of quail (Coturnix coturnix). PLoS ONE, 2017, 12, e0183649.	2.5	8
197	Blood-brain barrier function, cell viability, and gene expression of tight junction-associated proteins in the mouse are disrupted by crude oil, benzo[a]pyrene, and the dispersant COREXIT. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 223, 96-105.	2.6	8
198	Angiogenesis in the Avian Embryo Chorioallantoic Membrane: A Perspective on Research Trends and a Case Study on Toxicant Vascular Effects. Journal of Cardiovascular Development and Disease, 2020, 7, 56.	1.6	8

#	Article	IF	Citations
199	Putting the August Krogh principle to work in developmental physiology. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 252, 110825.	1.8	8
200	A Rotating Respirometer to Monitor Voluntary Activity and Associated Exchange of Respiratory Gases in the Land Hermit Crab (Coenobita Compressus). Journal of Experimental Biology, 1985, 119, 85-101.	1.7	8
201	Deepwater Horizon Oil Spill as a Case Study for Interdisciplinary Cooperation within Developmental Biology, Environmental Sciences and Physiology. World Journal of Engineering and Technology, 2015, 03, 7-23.	0.5	8
202	Clutch Effects Explain Heart Rate Variation in Embryonic Frogs (Cave Coqui, Eleutherodactylus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.5	7
203	Very high blood oxygen affinity and large Bohr shift differentiates the air-breathing siamese fighting fish (Betta splendens) from the closely related anabantoid the blue gourami (Trichopodus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Physiology, 2019, 229, 45-51.	1.8	7
204	The Persistence of a Patent Ductus Arteriosus in an Adult Specimen of the Tortoise Testudo graeca. Copeia, 1976, 1976, 405.	1.3	6
205	Incubation relative humidity induces renal morphological and physiological remodeling in the embryo of the chicken (Gallus gallus domesticus). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 204, 185-196.	1.8	6
206	Hematology from embryo to adult in the bobwhite quail (Colinus virginianus): Differential effects in the adult of clutch, sex and hypoxic incubation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 218, 24-34.	1.8	6
207	Responses to Environmental Stressors in Developing Animals: Costs and Benefits of Phenotypic Plasticity. , 2018, , 97-113.		6
208	Metabolic rate and hypoxia tolerance in Girardinichthys multiradiatus (Pisces: Goodeidae), an endemic fish at high altitude in tropical Mexico. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 239, 110576.	1.8	6
209	Metabolic and Hematological Responses to Endotoxinâ€Induced Inflammation in Chicks Experiencing Embryonic 2,3,7,8â€Tetrachlorodibenzodioxin Exposure. Environmental Toxicology and Chemistry, 2020, 39, 2208-2220.	4.3	6
210	Maternal serum concentration of anti-MÃ¼llerian hormone is a better predictor than basal follicle stimulating hormone of successful blastocysts development during IVF treatment. PLoS ONE, 2020, 15, e0239779.	2.5	5
211	Survival, Growth, and Development in the Early Stages of the Tropical Gar Atractosteus tropicus: Developmental Critical Windows and the Influence of Temperature, Salinity, and Oxygen Availability. Fishes, 2021, 6, 5.	1.7	5
212	Developmental Physiology: Grand Challenges. Frontiers in Physiology, 2021, 12, 706061.	2.8	5
213	Analysis of the potential behavioral impact of methanol when used as a solvent: Dataset from zebrafish (Danio rerio) behavioral research. Data in Brief, 2021, 36, 107018.	1.0	5
214	Hypoxia- and hyperoxia-related gene expression dynamics during developmental critical windows of the tropical gar Atractosteus tropicus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 263, 111093.	1.8	5
215	Why respiratory biology? The meaning and significance of respiration and its integrative study. Integrative and Comparative Biology, 2007, 47, 506-509.	2.0	4
216	Dynamics of acid-base and hematological regulation in day 15 chicken embryos (Gallus gallus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 2017, 239, 55-63.	1.6	4

#	Article	IF	Citations
217	Interdisciplinarity in the Biological Sciences. , 0, , 101-113.		4
218	Dietary Exposure to Low Levels of Crude Oil Affects Physiological and Morphological Phenotype in Adults and Their Eggs and Hatchlings of the King Quail (Coturnix chinensis). Frontiers in Physiology, 2021, 12, 661943.	2.8	4
219	The Regulation of Cutaneous Gas Exchange in Vertebrates. Proceedings in Life Sciences, 1985, , 101-113.	0.5	4
220	Renal, metabolic and hematological effects of trans-retinoic acid during critical developmental windows in the embryonic chicken. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 107-123.	1.5	3
221	Metabolic physiology of the freshwater planariaGirardia dorotocephelaandSchmidtea mediterranea: reproductive mode, specific dynamic action, and temperature. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 319, R428-R438.	1.8	3
222	Metabolic cost of development, regeneration, and reproduction in the planarian Schmidtea mediterranea. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 265, 111127.	1.8	3
223	Ontogeny of hypoxic modulation of cardiac performance and its allometry in the African clawed frog Xenopus laevis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 123-133.	1.5	2
224	The Nexus of Development and Environment. , 2018, , 1-5.		2
225	Chemoreceptive Control of Ventilation in Amphibians and Air-Breathing Fishes. , 2009, , 151-183.		2
226	Physical and Chemical Variables Promote Successful Nesting in High Mountain Sceloporus Lizards in Central MÃ©xico. Herpetologica, 2019, 75, 134.	0.4	2
227	The physiology of the avian embryo. , 2022, , 1015-1046.		2
228	Morphological and cardiac alterations after crude oil exposure in the early-life stages of the tropical gar (Atractosteus tropicus). Environmental Science and Pollution Research, 2021, , 1.	5.3	2
229	Triiodothyronine (T3) action on aquatic locomotor behavior during metamorphosis of the bullfrog Rana catesbeiana. International Journal of Developmental Biology, 2009, 53, 101-108.	0.6	1
230	Frontiers in Aquatic Physiology - grand challenge. Frontiers in Physiology, 2010, 1, 6.	2.8	1
231	Embryotoxicity and Physiological Compensation in Chicken Embryos Exposed to Crude Oil. Environmental Toxicology and Chemistry, 2021, 40, 2347-2358.	4.3	1
232	Marketing via Email Solicitation by Predatory (and Legitimate) Journals: An Evaluation of Quality, Frequency and Relevance. Journal of Librarianship and Scholarly Communication, 2018, 6, .	0.5	1
233	Physiological Regulation of Growth, Hematology and Blood Gases in Chicken Embryos in Response to Low and High Incubation Humidity. Frontiers in Physiology, 2022, 13, .	2.8	1
234	Xenopus and the art of oxygen maintenance. Journal of Experimental Biology, 2017, 220, 4084-4087.	1.7	0

#	Article	IF	Citations
235	Maternal serum concentrations of follicle stimulating hormone and anti-mÃ¼llerian hormone as predictors of successful blastocyst development during IVF treatment. Fertility and Sterility, 2018, 110, e358.	1.0	0
236	Modulation of the onset of airâ€breathing of the Siamese Fighting Fish and the Blue Gourami. FASEB Journal, 2012, 26, 1071.9.	0.5	0
237	Angiotensin II and developmental cardiovascularâ€renal interactions in embryonic chickens. FASEB Journal, 2013, 27, 714.18.	0.5	0
238	Cardiovascular Anatomy and Physiology. , 2020, , 119-161.		0
239	A Larval Zebrafish Model for Assessing Hypoxiaâ€Induced In Vivo Cardiomyocyte Damage: Time Course for Induction and Cardiac Output Recovery. FASEB Journal, 2020, 34, 1-1.	0.5	0
240	Metabolic responses to crude oil during early life stages reveal critical developmental windows in the zebrafish (Danio rerio). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 254, 109274.	2.6	0