

Steven C Hempleman

List of Publications by Year in descending order

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papers

586
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567281

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citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen diffusing capacity estimates derived from measured V_A/Q distributions in man. <i>Respiration Physiology</i> , 1987, 69, 129-147.	2.7	52
2	Cardiopulmonary response to exercise in patients with intrapulmonary vascular shunts. <i>Journal of Applied Physiology</i> , 1993, 75, 321-328.	2.5	52
3	Increased calcium current in carotid body glomus cells following in vivo acclimatization to chronic hypoxia. <i>Journal of Neurophysiology</i> , 1996, 76, 1880-1886.	1.8	39
4	Amplitude Dependency of Regional Chest Wall Resistance and Elastance at Normal Breathing Frequencies. <i>The American Review of Respiratory Disease</i> , 1989, 140, 25-30.	2.9	31
5	Sodium and potassium current in neonatal rat carotid body cells following chronic in vivo hypoxia. <i>Brain Research</i> , 1995, 699, 42-50.	2.2	28
6	CO ₂ transduction mechanisms in avian intrapulmonary chemoreceptors: experiments and models. <i>Respiratory Physiology and Neurobiology</i> , 2004, 144, 203-214.	1.6	27
7	Avian arterial chemoreceptor responses to steps of CO ₂ and O ₂ . <i>Respiration Physiology</i> , 1992, 90, 325-340.	2.7	26
8	Comparative embryology of the carotid body. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 3-8.	1.6	25
9	Estimating steady-state D _O ₂ with nonlinear dissociation curves and V_A/Q inequality. <i>Respiration Physiology</i> , 1988, 73, 279-288.	2.7	21
10	Receptive fields of intrapulmonary chemoreceptors in the Pekin duck. <i>Respiration Physiology</i> , 1984, 57, 317-330.	2.7	20
11	Avian intrapulmonary chemoreceptor discharge rate is increased by anion exchange blocker β -DIDS. <i>Respiration Physiology</i> , 2001, 128, 195-204.	2.7	19
12	Breathing in thin air: acclimatization to altitude in ducks. <i>Respiratory Physiology and Neurobiology</i> , 2004, 144, 225-235.	1.6	18
13	Temperature and the oxygen-hemoglobin dissociation curve of the harbor seal, <i>Phoca vitulina</i> . <i>Respiration Physiology</i> , 1990, 79, 137-144.	2.7	17
14	CO ₂ transduction in avian intrapulmonary chemoreceptors is critically dependent on transmembrane Na ⁺ /H ⁺ exchange. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 284, R1551-R1559.	1.8	16
15	Spike firing allometry in avian intrapulmonary chemoreceptors: matching neural code to body size. <i>Journal of Experimental Biology</i> , 2005, 208, 3065-3073.	1.7	16
16	Influence of pulmonary blood flow and O ₂ flux on D _O ₂ in avian lungs. <i>Respiration Physiology</i> , 1986, 63, 285-292.	2.7	15
17	Effects of normobaric and hypobaric hypoxia on ventilation and arterial blood gases in ducks. <i>Respiration Physiology</i> , 1990, 80, 163-170.	2.7	15
18	Prenatal development of respiratory chemoreceptors in endothermic vertebrates. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 156-162.	1.6	14

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19	Estimating exercise $\dot{V}O_2$ and diffusion limitation in patients with interstitial fibrosis. <i>Respiration Physiology</i> , 1991, 83, 167-178.	2.7	13
20	Computer simulation of mammalian gas-exchange. <i>Computers in Biology and Medicine</i> , 1986, 16, 91-101.	7.0	12
21	Development of avian intrapulmonary chemoreceptors. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 393-402.	1.6	12
22	Oxygen and avian eggshell formation at high altitude. <i>Respiration Physiology</i> , 1993, 92, 1-12.	2.7	10
23	Effect of temperature on the CO_2 sensitivity of avian intrapulmonary chemoreceptors. <i>Respiration Physiology</i> , 1983, 54, 233-240.	2.7	9
24	Calcium and avian intrapulmonary chemoreceptor response to CO_2 . <i>Journal of Applied Physiology</i> , 2006, 101, 1565-1575.	2.5	9
25	Comparison of intrapulmonary chemoreceptor response to PCO_2 in the duck and chicken. <i>Respiration Physiology</i> , 1985, 61, 179-184.	2.7	8
26	Imidazole binding reagent diethyl pyrocarbonate (DEPC) inhibits avian intrapulmonary chemoreceptor discharge in vivo. <i>Respiratory Physiology and Neurobiology</i> , 2006, 150, 144-154.	1.6	8
27	Sensitivity of avian intrapulmonary chemoreceptors to venous CO_2 load. <i>Respiration Physiology</i> , 1986, 66, 53-60.	2.7	7
28	Respiratory system mechanical behavior in the chicken. <i>Respiration Physiology</i> , 1991, 84, 145-157.	2.7	7
29	Evidence for TREK-like tandem-pore domain channels in intrapulmonary chemoreceptor chemotransduction. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 120-131.	1.6	6
30	Endosulfan Exposure Disrupts Pheromonal Systems in the Red-Spotted Newt: A Mechanism for Subtle Effects of Environmental Chemicals. <i>Environmental Health Perspectives</i> , 2001, 109, 669.	6.0	6
31	CO_2 and avian eggshell formation at high altitude. <i>Respiration Physiology</i> , 1992, 87, 1-10.	2.7	5
32	Diffusion limitation in comparative models of gas exchange. <i>Respiration Physiology</i> , 1993, 91, 17-29.	2.7	4
33	Calcium deficient diet, acetazolamide and gas exchange characteristics of avian eggshells. <i>Respiration Physiology</i> , 1994, 95, 11-20.	2.7	4
34	Comparative Physiology of Oxygen Transfer in Lungs. <i>Advances in Experimental Medicine and Biology</i> , 1988, 227, 53-65.	1.6	4
35	A model of the interaction between O_2 and CO_2 exchange and cardiopulmonary control in the duck. <i>Computers in Biology and Medicine</i> , 1979, 9, 167-178.	7.0	3
36	A model of regional ventilation-perfusion inhomogeneity in the avian lung. <i>Computer Programs in Biomedicine</i> , 1983, 17, 11-18.	0.7	3

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37	Effects of aerobic and anaerobic metabolic inhibitors on avian intrapulmonary chemoreceptors. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1576-R1584.	1.8	3
38	Mechanisms of CO2 Sensing in Avian Intrapulmonary Chemoreceptors. , 2009, , 213-234.		1
39	Intracellular energy metabolism in avian intrapulmonary chemoreceptors. FASEB Journal, 2007, 21, A919.	0.5	1
40	âœœOPTâœ• A Linear Program for Formulation of Diets at Minimal Cost. Poultry Science, 1981, 60, 76-88.	3.4	0
41	Modulation of duck intrapulmonary chemoreceptor discharge by cardiac activity. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1989, 159, 597-599.	1.5	0
42	Carbonic anhydrase activity underlies spike frequency adaptation in avian intrapulmonary chemoreceptors (IPC). FASEB Journal, 2013, 27, 1137.1.	0.5	0