

Frank L Powell

List of Publications by Year in descending order

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papers

904
citations

471061

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h-index

500791

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all docs

77
docs citations

77
times ranked

1007
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of Changes in Atmospheric O ₂ on Human Physiology. Is There a Basis for Concern?. <i>Frontiers in Physiology</i> , 2021, 12, 571137.	1.3	10
2	Neuronal HIF-1 α in the nucleus tractus solitarius contributes to ventilatory acclimatization to hypoxia. <i>Journal of Physiology</i> , 2020, 598, 2021-2034.	1.3	19
3	Relationships Between Chemoreflex Responses, Sleep Quality, and Hematocrit in Andean Men and Women. <i>Frontiers in Physiology</i> , 2020, 11, 437.	1.3	10
4	Tibetans resident at intermediate altitude (1300 m, 4327 ft) show similar hypoxic ventilatory responses but blunted heart rate responses to poikilocapnic hypoxia. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.2	0
5	Cognitive function and mood at high altitude following acclimatization and use of supplemental oxygen and adaptive servoventilation sleep treatments. <i>PLoS ONE</i> , 2019, 14, e0217089.	1.1	37
6	Excessive erythrocytosis in high-altitude residents is associated with modest impairments in short-term memory and processing speed. <i>FASEB Journal</i> , 2019, 33, 551.2.	0.2	0
7	Adaptive Servoventilation as Treatment for Central Sleep Apnea Due to High-Altitude Periodic Breathing in Nonacclimatized Healthy Individuals. <i>High Altitude Medicine and Biology</i> , 2018, 19, 178-184.	0.5	25
8	Serotonin and Adenosine G-protein Coupled Receptor Signaling for Ventilatory Acclimatization to Sustained Hypoxia. <i>Frontiers in Physiology</i> , 2018, 9, 860.	1.3	1
9	Computational model of brain-stem circuit for state-dependent control of hypoglossal motoneurons. <i>Journal of Neurophysiology</i> , 2018, 120, 296-305.	0.9	4
10	Astrocyte-specific deletion of Kir4.1 increases normoxic ventilation after acclimatization to chronic sustained hypoxia. <i>FASEB Journal</i> , 2018, 32, 625.14.	0.2	0
11	Increased Levels of Interleukin-6 (IL-6) in Andean Males with Chronic Mountain Sickness and Sea-Level Participants After One Day at High Altitude May Reflect Differences in IL-6 Regulation. <i>FASEB Journal</i> , 2018, 32, lb479.	0.2	1
12	Minocycline blocks glial cell activation and ventilatory acclimatization to hypoxia. <i>Journal of Neurophysiology</i> , 2017, 117, 1625-1635.	0.9	35
13	Transcriptomic analysis identifies a role of PI3K/Akt signalling in the responses of skeletal muscle to acute hypoxia <i>in vivo</i> . <i>Journal of Physiology</i> , 2017, 595, 5797-5813.	1.3	10
14	The impact of inflammation on respiratory plasticity. <i>Experimental Neurology</i> , 2017, 287, 243-253.	2.0	46
15	Time Domains of the Hypoxic Ventilatory Response and Their Molecular Basis. , 2016, 6, 1345-1385.		97
16	Ibuprofen Blunts Ventilatory Acclimatization to Sustained Hypoxia in Humans. <i>PLoS ONE</i> , 2016, 11, e0146087.	1.1	22
17	Cardiac responses to hypoxia and reoxygenation in <i>Drosophila</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1347-R1357.	0.9	19
18	A Protocol to Collect Specific Mouse Skeletal Muscles for Metabolomics Studies. <i>Methods in Molecular Biology</i> , 2015, 1375, 169-179.	0.4	2

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19	No evidence of a role for neuronal nitric oxide synthase in the nucleus tractus solitarius in ventilatory responses to acute or chronic hypoxia in awake rats. <i>Journal of Applied Physiology</i> , 2015, 118, 750-759.	1.2	12
20	Notch Activation of Ca ²⁺ Signaling in the Development of Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 355-367.	1.4	86
21	Glutamate receptors in the nucleus tractus solitarius contribute to ventilatory acclimatization to hypoxia in rat. <i>Journal of Physiology</i> , 2014, 592, 1839-1856.	1.3	46
22	The effect of combined glutamate receptor blockade in the NTS on the hypoxic ventilatory response in awake rats differs from the effect of individual glutamate receptor blockade. <i>Physiological Reports</i> , 2014, 2, e12092.	0.7	16
23	Ibuprofen does not reverse time-dependent increase in hypoxic ventilation in chronically hypoxic rats. <i>FASEB Journal</i> , 2013, 27, 721.5.	0.2	0
24	Measuring the respiratory chemoreflexes in humans by J. Duffin. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 44-45.	0.7	7
25	Effects of non-steroid anti-inflammatory drugs on the human hypoxic ventilatory response and acclimatization. <i>FASEB Journal</i> , 2012, 26, 1150.2.	0.2	0
26	HIF-1a gene deletion in the nucleus tractus solitarii (NTS) blunts ventilatory acclimatization to hypoxia (VAH). <i>FASEB Journal</i> , 2012, 26, 704.15.	0.2	0
27	Foreword. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 359-361.	0.7	3
28	Paracrine erythropoietin (EPO) signaling and anti-apoptosis in the lungs of guinea pigs exposed to high altitude (HA). <i>FASEB Journal</i> , 2011, 25, 861.10.	0.2	0
29	Studying biological responses to global change in atmospheric oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, S6-S12.	0.7	7
30	The effect of chronic ibuprofen treatment on ventilatory acclimatization to hypoxia. <i>FASEB Journal</i> , 2010, 24, 1026.24.	0.2	0
31	Oxygen Sensing in the Brain – Invited Article. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 369-376.	0.8	24
32	Chronic hypoxia decreases response to central chemoreceptor stimulation in the nucleus tractus solitarius (NTS). <i>FASEB Journal</i> , 2009, 23, 621.16.	0.2	2
33	HIF-1 and ventilatory acclimatization to chronic hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 282-287.	0.7	51
34	Non-NMDA receptor activation in the Nucleus Tractus Solitarius (NTS) increases ventilatory drive. <i>FASEB Journal</i> , 2008, 22, 954.5.	0.2	0
35	Chronic Hypoxia (CHx) Suppresses the Chemosensitive Response of Individual Nucleus Tractus Solitarius (NTS) Neurons from Adult Rats. <i>FASEB Journal</i> , 2008, 22, 1172.1.	0.2	1
36	The influence of chronic hypoxia upon chemoreception. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 154-161.	0.7	97

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37	Commentary on: "Major differences in the pulmonary circulation of birds and mammals" by John B. West, Rebecca R. Watson and Zhenxing Fu. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 391-392.	0.7	0
38	Lake Louise Consensus Methods for Measuring the Hypoxic Ventilatory Response. , 2006, 588, 271-276.		7
39	Breathing in thin air: acclimatization to altitude in ducks. <i>Respiratory Physiology and Neurobiology</i> , 2004, 144, 225-235.	0.7	18
40	Comparative Physiology of Lung Complexity: Implications for Gas Exchange. <i>Physiology</i> , 2004, 19, 55-60.	1.6	11
41	Functional Genomics and the Comparative Physiology of Hypoxia. <i>Annual Review of Physiology</i> , 2003, 65, 203-230.	5.6	42
42	Nocturnal Oxygen Enrichment of Room Air at 3800 Meter Altitude Improves Sleep Architecture. <i>High Altitude Medicine and Biology</i> , 2001, 2, 525-533.	0.5	35
43	Six Percent Oxygen Enrichment of Room Air at Simulated 5000 m Altitude Improves Neuropsychological Function. <i>High Altitude Medicine and Biology</i> , 2000, 1, 51-61.	0.5	45
44	Nocturnal O2 Enrichment of Room Air at High Altitude Increases Daytime O2 Saturation Without Changing Control of Ventilation. <i>High Altitude Medicine and Biology</i> , 2000, 1, 197-206.	0.5	25
45	Ultrastructure of the glomus cells in the carotid body of chronically hypoxic rats: With special reference to the similarity of amphibian glomus cells. <i>The Anatomical Record</i> , 1993, 237, 220-227.	2.3	31