

Heimo Mairböck

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,493
citations

304743

22
h-index

206112

48
g-index

62
all docs

62
docs citations

62
times ranked

2699
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiological aspects of high-altitude pulmonary edema. <i>Journal of Applied Physiology</i> , 2005, 98, 1101-1110.	2.5	292
2	Pathogenesis of High-Altitude Pulmonary Edema. <i>JAMA - Journal of the American Medical Association</i> , 2002, 287, 2228.	7.4	287
3	Red blood cells in sports: effects of exercise and training on oxygen supply by red blood cells. <i>Frontiers in Physiology</i> , 2013, 4, 332.	2.8	276
4	Both Tadalafil and Dexamethasone May Reduce the Incidence of High-Altitude Pulmonary Edema. <i>Annals of Internal Medicine</i> , 2006, 145, 497.	3.9	253
5	Oxygen Transport by Hemoglobin. , 2012, 2, 1463-1489.		149
6	Hypoxia decreases proteins involved in epithelial electrolyte transport in A549 cells and rat lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 279, L1110-L1119.	2.9	84
7	Downregulation of the TGF β 2 Pseudoreceptor BAMBI in Non-“Small Cell Lung Cancer Enhances TGF β 2 Signaling and Invasion. <i>Cancer Research</i> , 2016, 76, 3785-3801.	0.9	75
8	Hypoxia decreases active Na transport across primary rat alveolar epithelial cell monolayers. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002, 282, L659-L665.	2.9	70
9	Hypoxia Decreases Cellular ATP Demand and Inhibits Mitochondrial Respiration of A549 Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005, 32, 44-51.	2.9	69
10	The increase in hemoglobin concentration with altitude varies among human populations. <i>Annals of the New York Academy of Sciences</i> , 2019, 1450, 204-220.	3.8	61
11	Impairment of cation transport in A549 cells and rat alveolar epithelial cells by hypoxia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1997, 273, L797-L806.	2.9	59
12	Dexamethasone prevents transport inhibition by hypoxia in rat lung and alveolar epithelial cells by stimulating activity and expression of Na ⁺ -K ⁺ -ATPase and epithelial Na ⁺ channels. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 293, L1332-L1338.	2.9	55
13	Extreme Terrestrial Environments: Life in Thermal Stress and Hypoxia. A Narrative Review. <i>Frontiers in Physiology</i> , 2018, 9, 572.	2.8	53
14	Nasal Epithelium Potential Difference at High Altitude (4,559 m). <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 862-867.	5.6	52
15	High altitude pulmonary edema: A pressure-induced leak. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 266-273.	1.6	44
16	The HMGB1 protein induces a metabolic type of tumour cell death by blocking aerobic respiration. <i>Nature Communications</i> , 2016, 7, 10764.	12.8	41
17	Expression and regulation of AC133 and CD133 in glioblastoma. <i>Glia</i> , 2011, 59, 1974-1986.	4.9	40
18	Role of alveolar epithelial sodium transport in high altitude pulmonary edema (HAPE). <i>Respiratory Physiology and Neurobiology</i> , 2006, 151, 178-191.	1.6	39

#	ARTICLE	IF	CITATIONS
19	Altered ion transporter expression in bronchial epithelium in mountaineers with high-altitude pulmonary edema. <i>Journal of Applied Physiology</i> , 2003, 95, 1843-1850.	2.5	34
20	Identification of a Prognostic Hypoxia-Associated Gene Set in IDH-Mutant Glioma. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2903.	4.1	30
21	Inhaled budesonide does not prevent acute mountain sickness after rapid ascent to 4559â€¦m. <i>European Respiratory Journal</i> , 2017, 50, 1700982.	6.7	29
22	Cation transport and cell volume changes in maturing rat reticulocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C1621-C1630.	4.6	28
23	Absence of neocytolysis in humans returning from a 3â€¦week highâ€¦altitude sojourn. <i>Acta Physiologica</i> , 2021, 232, e13647.	3.8	26
24	Remote ischemic preconditioning for prevention of high-altitude diseases: fact or fiction?. <i>Journal of Applied Physiology</i> , 2015, 119, 1143-1151.	2.5	24
25	Possible role of ROS as mediators of hypoxia-induced ion transport inhibition of alveolar epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 278, L640-L648.	2.9	22
26	Remote ischemic preconditioning does not prevent acute mountain sickness after rapid ascent to 3,450 m. <i>Journal of Applied Physiology</i> , 2017, 123, 1228-1234.	2.5	21
27	Genetic Predisposition to High-Altitude Pulmonary Edema. <i>High Altitude Medicine and Biology</i> , 2020, 21, 28-36.	0.9	21
28	Neocytolysis: How to Get Rid of the Extra Erythrocytes Formed by Stress Erythropoiesis Upon Descent From High Altitude. <i>Frontiers in Physiology</i> , 2018, 9, 345.	2.8	19
29	Remote ischemic preconditioning delays the onset of acute mountain sickness in normobaric hypoxia. <i>Physiological Reports</i> , 2015, 3, e12325.	1.7	18
30	Role of Hemolysis in Red Cell Adenosine Triphosphate Release in Simulated Exercise Conditions In Vitro. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1941-1947.	0.4	16
31	Alveolar Flooding at High Altitude: Failure of Reabsorption?. <i>Physiology</i> , 2003, 18, 55-59.	3.1	15
32	FXYP1 negatively regulates Na ⁺ /K ⁺ -ATPase activity in lung alveolar epithelial cells. <i>Respiratory Physiology and Neurobiology</i> , 2016, 220, 54-61.	1.6	15
33	In vitro hypoxia impairs β_2 -adrenergic receptor signaling in primary rat alveolar epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 296, L500-L509.	2.9	14
34	β_2 -Adrenergics in Hypoxia Desensitize Receptors but Blunt Inhibition of Reabsorption in Rat Lungs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 45, 1059-1068.	2.9	14
35	Increased hepcidin levels in high-altitude pulmonary edema. <i>Journal of Applied Physiology</i> , 2015, 118, 292-298.	2.5	13
36	Iron metabolism in high-altitude residents. <i>Journal of Applied Physiology</i> , 2020, 129, 920-925.	2.5	12

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37	Does High Alveolar Fluid Reabsorption Prevent HAPE in Individuals with Exaggerated Pulmonary Hypertension in Hypoxia?. High Altitude Medicine and Biology, 2015, 16, 283-289.	0.9	11
38	Impairment of left atrial mechanics does not contribute to the reduction in stroke volume after active ascent to 4559Åm. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 223-231.	2.9	11
39	Inhibition of alveolar Na transport and LPS causes hypoxemia and pulmonary arterial vasoconstriction in ventilated rats. Physiological Reports, 2016, 4, e12985.	1.7	10
40	Reliability of echocardiographic speckle-tracking derived bi-atrial strain assessment under different hemodynamic conditions. International Journal of Cardiovascular Imaging, 2017, 33, 1685-1692.	1.5	10
41	The role of hypoxiaâ€induced modulation of alveolar epithelial Na⁺â€transport in hypoxemia at high altitude. Pulmonary Circulation, 2020, 10, 50-58.	1.7	10
42	Preserved right ventricular function but increased right atrial contractile demand in altitude-induced pulmonary hypertension. International Journal of Cardiovascular Imaging, 2020, 36, 1069-1076.	1.5	10
43	Acute in vitro hypoxia and high-altitude (4,559 m) exposure decreases leukocyte oxygen consumption. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R32-R39.	1.8	9
44	The Hen or the Egg: Impaired Alveolar Oxygen Diffusion and Acute High-altitude Illness?. International Journal of Molecular Sciences, 2019, 20, 4105.	4.1	9
45	Inhaled Budesonide Does Not Affect Hypoxic Pulmonary Vasoconstriction at 4559 Meters of Altitude. High Altitude Medicine and Biology, 2018, 19, 52-59.	0.9	8
46	Rapid Ascent to 4559â€m Is Associated with Increased Plasma Components of the Vascular Endothelial Glycocalyx and May Be Associated with Acute Mountain Sickness. High Altitude Medicine and Biology, 2020, 21, 176-183.	0.9	7
47	Exposure to 16â€h of normobaric hypoxia induces ionic edema in the healthy brain. Nature Communications, 2021, 12, 5987.	12.8	7
48	Con: Corticosteroids Are Useful in the Management of HAPE. High Altitude Medicine and Biology, 2015, 16, 190-192.	0.9	5
49	Geographical ancestry affects normal hemoglobin values in high-altitude residents. Journal of Applied Physiology, 2020, 129, 1451-1459.	2.5	5
50	Of mice and men¹: How to achieve a better life with lower total Hb mass after returning from hypoxia to normoxia. (response to Song and colleagues). Acta Physiologica, 2021, 233, e13720.	3.8	3
51	â€So is science â€ â€ <sup>1< (response="" 2021,="" 233,="" acta="" and="" descending="" e13709.<="" evidence="" for<i>neocytolysis<="" gunga).="" i>="" mountains="" no="" on="" physiologica,="" rice="" sup>:="" td="" the="" to=""> <td>3.8</td> <td>3</td> </sup>1<>	3.8	3
52	In Vitro Erythropoiesis at Different pO2 Induces Adaptations That Are Independent of Prior Systemic Exposure to Hypoxia. Cells, 2022, 11, 1082.	4.1	3
53	Kinetics of Changes in Hemoglobin After Ascent to and Return from High Altitude. Journal of Science in Sport and Exercise, 2020, 2, 7-14.	1.0	1
54	Space anemia unexplained: Red blood cells seem to be spaceâ€proof. American Journal of Hematology, 2022, 97, .	4.1	1

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55	Reducing the Incidence of High-Altitude Pulmonary Edema. <i>Annals of Internal Medicine</i> , 2007, 146, 613.	3.9	0
56	Response to the letter: role of remote ischemic preconditioning against acute mountain sickness during early phase by Sikri and Chawla. <i>Physiological Reports</i> , 2015, 3, e12498.	1.7	0
57	Rebuttal to the PRO Statement. <i>High Altitude Medicine and Biology</i> , 2015, 16, 194-194.	0.9	0
58	Squeezing viscous blood through narrow pipes, and other problems of high-altitude polycythaemia. <i>Journal of Physiology</i> , 2021, 599, 4011-4012.	2.9	0
59	In Search of a Sensor: How Does CO ₂ Regulate Alveolar Ion Transport?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 571-572.	2.9	0
60	Co-culture of alveolar epithelial and endothelial cells blunts failure of alveolar barrier function in hypoxia. <i>FASEB Journal</i> , 2008, 22, 932.8.	0.5	0
61	Dexamethasone-stimulation of Na-transport differs across lung epithelia. <i>FASEB Journal</i> , 2008, 22, 764.6.	0.5	0
62	Inhibition of Gi/o-proteins prevents hypoxia-induced impairment of beta ₂ -adrenergic signalling in primary rat alveolar epithelial cells. <i>FASEB Journal</i> , 2008, 22, 748.8.	0.5	0