

Rob C I WÃ¼st

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,913
citations

201575

27
h-index

175177

52
g-index

61
all docs

61
docs citations

61
times ranked

4944
citing authors

#	ARTICLE	IF	CITATIONS
1	Empagliflozin decreases myocardial cytoplasmic Na ⁺ through inhibition of the cardiac Na ⁺ /H ⁺ exchanger in rats and rabbits. <i>Diabetologia</i> , 2017, 60, 568-573.	2.9	468
2	Metabolic Flexibility as an Adaptation to Energy Resources and Requirements in Health and Disease. <i>Endocrine Reviews</i> , 2018, 39, 489-517.	8.9	359
3	Disorders of mitochondrial long-chain fatty acid oxidation and the carnitine shuttle. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2018, 19, 93-106.	2.6	215
4	A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. <i>Cell Reports</i> , 2018, 25, 2044-2052.e5.	2.9	140
5	Sex differences in contractile properties and fatigue resistance of human skeletal muscle. <i>Experimental Physiology</i> , 2008, 93, 843-850.	0.9	136
6	Skeletal muscle alterations in patients with acute Covid-19 and post-acute sequelae of Covid-19. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2022, 13, 11-22.	2.9	119
7	Skeletal muscle properties and fatigue resistance in relation to smoking history. <i>European Journal of Applied Physiology</i> , 2008, 104, 103-110.	1.2	98
8	Factors contributing to muscle wasting and dysfunction in COPD patients. <i>International Journal of COPD</i> , 2007, 2, 289-300.	0.9	91
9	Synergistic role of ADP and Ca ²⁺ in diastolic myocardial stiffness. <i>Journal of Physiology</i> , 2015, 593, 3899-3916.	1.3	60
10	Diaphragm Atrophy and Weakness in the Absence of Mitochondrial Dysfunction in the Critically Ill. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 1544-1558.	2.5	57
11	Mitochondrial Dysfunction Underlies Cardiomyocyte Remodeling in Experimental and Clinical Atrial Fibrillation. <i>Cells</i> , 2019, 8, 1202.	1.8	57
12	Kinetic control of oxygen consumption during contractions in self-perfused skeletal muscle. <i>Journal of Physiology</i> , 2011, 589, 3995-4009.	1.3	56
13	Altered mitochondrial metabolism in the insulin-resistant heart. <i>Acta Physiologica</i> , 2020, 228, e13430.	1.8	56
14	The effect of ambient temperature on gross-efficiency in cycling. <i>European Journal of Applied Physiology</i> , 2007, 101, 465-471.	1.2	54
15	Fiber Capillary Supply Related To Fiber Size And Oxidative Capacity In Human And Rat Skeletal Muscle. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 75-80.	0.8	52
16	Disturbed cardiac mitochondrial and cytosolic calcium handling in a metabolic risk-related rat model of heart failure with preserved ejection fraction. <i>Acta Physiologica</i> , 2020, 228, e13378.	1.8	51
17	Regional skeletal muscle remodeling and mitochondrial dysfunction in right ventricular heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H402-H411.	1.5	43
18	Differential regulation of perineuronal nets in the brain and spinal cord with exercise training. <i>Brain Research Bulletin</i> , 2015, 111, 20-26.	1.4	42

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19	Mitochondrial complex I dysfunction and altered NAD(P)H kinetics in rat myocardium in cardiac right ventricular hypertrophy and failure. <i>Cardiovascular Research</i> , 2016, 111, 362-372.	1.8	42
20	Onâ€“off asymmetries in oxygen consumption kinetics of single <i>Xenopus laevis</i> skeletal muscle fibres suggest higherâ€“order control. <i>Journal of Physiology</i> , 2013, 591, 731-744.	1.3	40
21	Decreased creatine kinase is linked to diastolic dysfunction in rats with right heart failure induced by pulmonary artery hypertension. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 86, 1-8.	0.9	40
22	Muscle fatigue resistance during stimulated contractions is reduced in young male smokers. <i>Acta Physiologica</i> , 2007, 191, 123-129.	1.8	38
23	Pathophysiological mechanisms explaining poor clinical outcome of older cancer patients with low skeletal muscle mass. <i>Acta Physiologica</i> , 2021, 231, e13516.	1.8	36
24	Rapid frequencyâ€“dependent changes in free mitochondrial calcium concentration in rat cardiac myocytes. <i>Journal of Physiology</i> , 2017, 595, 2001-2019.	1.3	32
25	Emerging Magnetic Resonance Imaging Techniques for Atherosclerosis Imaging. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 841-849.	1.1	32
26	Carbon monoxide inhalation reduces skeletal muscle fatigue resistance. <i>Acta Physiologica</i> , 2008, 192, 397-401.	1.8	28
27	Defective postreperfusion metabolic recovery directly associates with incident delayed graft function. <i>Kidney International</i> , 2016, 90, 181-191.	2.6	28
28	Slowed muscle oxygen uptake kinetics with raised metabolism are not dependent on blood flow or recruitment dynamics. <i>Journal of Physiology</i> , 2014, 592, 1857-1871.	1.3	27
29	Assessment of acute and chronic toxicity of doxorubicin in human induced pluripotent stem cell-derived cardiomyocytes. <i>Toxicology in Vitro</i> , 2017, 42, 182-190.	1.1	27
30	Nutritional ketosis improves exercise metabolism in patients with very longâ€“chain acylâ€“CoA dehydrogenase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 787-799.	1.7	26
31	Changes in contractile properties of skinned single rat soleus and diaphragm fibres after chronic hypoxia. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 460, 863-873.	1.3	25
32	Succinate Accumulation and Ischemiaâ€“Reperfusion Injury: Of Mice but Not Men, a Study in Renal Ischemiaâ€“Reperfusion. <i>American Journal of Transplantation</i> , 2016, 16, 2741-2746.	2.6	24
33	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2589.	1.8	24
34	Breath-by-breath changes of lung oxygen stores at rest and during exercise in humans. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 291-299.	0.7	23
35	An iterative sparse deconvolution method for simultaneous multicolor ¹⁹ Fâ€“MRI of multiple contrast agents. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 228-239.	1.9	23
36	Confounding factors from inducible systems for spatiotemporal gene expression regulation. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	23

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37	Skeletal muscle capillarization and oxidative metabolism in healthy smokers. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 1240-1245.	0.9	20
38	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4100.	1.8	20
39	Fourteen days of smoking cessation improves muscle fatigue resistance and reverses markers of systemic inflammation. <i>Scientific Reports</i> , 2021, 11, 12286.	1.6	19
40	Rapid changes in NADH and flavin autofluorescence in rat cardiac trabeculae reveal large mitochondrial complex II reserve capacity. <i>Journal of Physiology</i> , 2015, 593, 1829-1840.	1.3	18
41	Two Weeks of Smoking Cessation Reverse Cigarette Smoke-Induced Skeletal Muscle Atrophy and Mitochondrial Dysfunction in Mice. <i>Nicotine and Tobacco Research</i> , 2021, 23, 143-151.	1.4	18
42	Cellular, mitochondrial and molecular alterations associate with early left ventricular diastolic dysfunction in a porcine model of diabetic metabolic derangement. <i>Scientific Reports</i> , 2020, 10, 13173.	1.6	15
43	Preclinical models versus clinical renal ischemia reperfusion injury: A systematic review based on metabolic signatures. <i>American Journal of Transplantation</i> , 2022, 22, 344-370.	2.6	14
44	TMBIM5 loss of function alters mitochondrial matrix ion homeostasis and causes a skeletal myopathy. <i>Life Science Alliance</i> , 2022, 5, e202201478.	1.3	14
45	Circumventing the Crabtree effect in cell culture: A systematic review. <i>Mitochondrion</i> , 2021, 59, 83-95.	1.6	12
46	Synergistic short-term and long-term effects of TGF-Î²1 and 3 on collagen production in differentiating myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2021, 547, 176-182.	1.0	11
47	Time-restricted feeding during the inactive phase abolishes the daily rhythm in mitochondrial respiration in rat skeletal muscle. <i>FASEB Journal</i> , 2022, 36, e22133.	0.2	11
48	Effects of Smoking on Tibial and Radial Bone Mass and Strength May Diminish with Age. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 2763-2771.	1.8	9
49	Commentaries on Viewpoint: The rigorous study of exercise adaptations: Why mRNA might not be enough. <i>Journal of Applied Physiology</i> , 2016, 121, 597-600.	1.2	6
50	Successive contractile periods activate mitochondria at the onset of contractions in intact rat cardiac trabeculae. <i>Journal of Applied Physiology</i> , 2018, 124, 1003-1011.	1.2	6
51	Commentaries on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. <i>Journal of Applied Physiology</i> , 2017, 122, 409-411.	1.2	5
52	Ketones and inborn errors of metabolism: old friends revisited. <i>Journal of Inherited Metabolic Disease</i> , 2017, 40, 3-4.	1.7	5
53	Water: The fountain of strength. <i>Acta Physiologica</i> , 2018, 224, e13153.	1.8	4
54	Regular physical exercise mediates the immune response in atherosclerosis. <i>Exercise Immunology Review</i> , 2021, 27, 42-53.	0.4	4

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55	Implications of rapid early oxygen consumption in exercising skeletal muscle: The empirical, the theoretical and the rational. <i>Journal of Physiology</i> , 2011, 589, 6245-6246.	1.3	2
56	Uncoupling mitochondrial uncoupling from alternative substrate utilization: implications for heavy intensity exercise. <i>Journal of Physiology</i> , 2020, 598, 3787-3788.	1.3	2
57	Quantification of Mouse Heart Left Ventricular Function, Myocardial Strain, and Hemodynamic Forces by Cardiovascular Magnetic Resonance Imaging. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	2
58	The combination of smoking with vitamin D deficiency impairs skeletal muscle fiber hypertrophy in response to overload in mice. <i>Journal of Applied Physiology</i> , 2021, 131, 339-351.	1.2	2
59	Muscle Function in Smokers: Clearing Up the Smoke. <i>Chest</i> , 2008, 134, 219-220.	0.4	1
60	Longitudinal CMR assessment of cardiac global longitudinal strain and hemodynamic forces in a mouse model of heart failure. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 2385-2394.	0.2	1
61	Muscle physiology: move to translation. <i>Journal of Muscle Research and Cell Motility</i> , 2014, 35, 1-2.	0.9	0