Rob C I WÃ¼st

List of Publications by Year
in descending order

61 papers	2,913 citations	201674 27 h-index	175258 52 g-index
61 all docs	61 docs citations	61 times ranked	4944 citing authors

#	Article	IF	Citations
1	Preclinical models versus clinical renal ischemia reperfusion injury: A systematic review based on metabolic signatures. American Journal of Transplantation, 2022, 22, 344-370.	4.7	14
2	Skeletal muscle alterations in patients with acute Covidâ€19 and postâ€acute sequelae of Covidâ€19. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 11-22.	7.3	119
3	Timeâ€restricted feeding during the inactive phase abolishes the daily rhythm in mitochondrial respiration in rat skeletal muscle. FASEB Journal, 2022, 36, e22133.	0.5	11
4	Longitudinal CMR assessment of cardiac global longitudinal strain and hemodynamic forces in a mouse model of heart failure. International Journal of Cardiovascular Imaging, 2022, 38, 2385-2394.	0.6	1
5	TMBIM5 loss of function alters mitochondrial matrix ion homeostasis and causes a skeletal myopathy. Life Science Alliance, 2022, 5, e202201478.	2.8	14
6	Pathophysiological mechanisms explaining poor clinical outcome of older cancer patients with low skeletal muscle mass. Acta Physiologica, 2021, 231, e13516.	3.8	36
7	Two Weeks of Smoking Cessation Reverse Cigarette Smoke-Induced Skeletal Muscle Atrophy and Mitochondrial Dysfunction in Mice. Nicotine and Tobacco Research, 2021, 23, 143-151.	2.6	18
8	Synergistic short-term and long-term effects of TGF-Î²1 and 3 on collagen production in differentiating myoblasts. Biochemical and Biophysical Research Communications, 2021, 547, 176-182.	2.1	11
9	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. International Journal of Molecular Sciences, 2021, 22, 4100.	4.1	20
10	Quantification of Mouse Heart Left Ventricular Function, Myocardial Strain, and Hemodynamic Forces by Cardiovascular Magnetic Resonance Imaging. Journal of Visualized Experiments, 2021, , .	0.3	2
11	Fourteen days of smoking cessation improves muscle fatigue resistance and reverses markers of systemic inflammation. Scientific Reports, 2021, 11, 12286.	3.3	19
12	The combination of smoking with vitamin D deficiency impairs skeletal muscle fiber hypertrophy in response to overload in mice. Journal of Applied Physiology, 2021, 131, 339-351.	2.5	2
13	Circumventing the Crabtree effect in cell culture: A systematic review. Mitochondrion, 2021, 59, 83-95.	3.4	12
14	Regular physical exercise mediates the immune response in atherosclerosis. Exercise Immunology Review, 2021, 27, 42-53.	0.4	4
15	An iterative sparse deconvolution method for simultaneous multicolor ¹⁹Fâ€MRI of multiple contrast agents. Magnetic Resonance in Medicine, 2020, 83, 228-239.	3.0	23
16	Disturbed cardiac mitochondrial and cytosolic calcium handling in a metabolic riskâ€related rat model of heart failure with preserved ejection fraction. Acta Physiologica, 2020, 228, e13378.	3.8	51
17	Altered mitochondrial metabolism in the insulinâ€resistant heart. Acta Physiologica, 2020, 228, e13430.	3.8	56
18	Cellular, mitochondrial and molecular alterations associate with early left ventricular diastolic dysfunction in a porcine model of diabetic metabolic derangement. Scientific Reports, 2020, 10, 13173.	3.3	15

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19	Uncoupling mitochondrial uncoupling from alternative substrate utilization: implications for heavy intensity exercise. Journal of Physiology, 2020, 598, 3787-3788.	2.9	2
20	Nutritional ketosis improves exercise metabolism in patients with very longâ€chain acylâ€CoA dehydrogenase deficiency. Journal of Inherited Metabolic Disease, 2020, 43, 787-799.	3.6	26
21	Electrophysiological Abnormalities in VLCAD Deficient hiPSC-Cardiomyocytes Can Be Improved by Lowering Accumulation of Fatty Acid Oxidation Intermediates. International Journal of Molecular Sciences, 2020, 21, 2589.	4.1	24
22	Confounding factors from inducible systems for spatiotemporal gene expression regulation. Journal of Cell Biology, 2020, 219, .	5.2	23
23	Mitochondrial Dysfunction Underlies Cardiomyocyte Remodeling in Experimental and Clinical Atrial Fibrillation. Cells, 2019, 8, 1202.	4.1	57
24	Emerging Magnetic Resonance Imaging Techniques for Atherosclerosis Imaging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 841-849.	2.4	32
25	Metabolic Flexibility as an Adaptation to Energy Resources and Requirements in Health and Disease. Endocrine Reviews, 2018, 39, 489-517.	20.1	359
26	A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. Cell Reports, 2018, 25, 2044-2052.e5.	6.4	140
27	Water: The fountain of strength. Acta Physiologica, 2018, 224, e13153.	3.8	4
28	Disorders of mitochondrial long-chain fatty acid oxidation and the carnitine shuttle. Reviews in Endocrine and Metabolic Disorders, 2018, 19, 93-106.	5.7	215
29	Successive contractile periods activate mitochondria at the onset of contractions in intact rat cardiac trabeculae. Journal of Applied Physiology, 2018, 124, 1003-1011.	2.5	6
30	Rapid frequencyâ€dependent changes in free mitochondrial calcium concentration in rat cardiac myocytes. Journal of Physiology, 2017, 595, 2001-2019.	2.9	32
31	Commentaries on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. Journal of Applied Physiology, 2017, 122, 409-411.	2.5	5
32	Assessment of acute and chronic toxicity of doxorubicin in human induced pluripotent stem cell-derived cardiomyocytes. Toxicology in Vitro, 2017, 42, 182-190.	2.4	27
33	Diaphragm Atrophy and Weakness in the Absence of Mitochondrial Dysfunction in the Critically Ill. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1544-1558.	5.6	57
34	Empagliflozin decreases myocardial cytoplasmic Na+ through inhibition of the cardiac Na+/H+ exchanger in rats and rabbits. Diabetologia, 2017, 60, 568-573.	6.3	468
35	Ketones and inborn errors of metabolism: old friends revisited. Journal of Inherited Metabolic Disease, 2017, 40, 3-4.	3.6	5
36	Mitochondrial complex I dysfunction and altered NAD(P)H kinetics in rat myocardium in cardiac right ventricular hypertrophy and failure. Cardiovascular Research, 2016, 111, 362-372.	3.8	42

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37	Succinate Accumulation and Ischemiaâ€"Reperfusion Injury: Of Mice but Not Men, a Study in Renal Ischemiaâ€"Reperfusion. American Journal of Transplantation, 2016, 16, 2741-2746.	4.7	24
38	Commentaries on Viewpoint: The rigorous study of exercise adaptations: Why mRNA might not be enough. Journal of Applied Physiology, 2016, 121, 597-600.	2.5	6
39	Defective postreperfusion metabolic recovery directly associates with incident delayed graft function. Kidney International, 2016, 90, 181-191.	5.2	28
40	Synergistic role of ADP and Ca²⁺ in diastolic myocardial stiffness. Journal of Physiology, 2015, 593, 3899-3916.	2.9	60
41	Differential regulation of perineuronal nets in the brain and spinal cord with exercise training. Brain Research Bulletin, 2015, 111, 20-26.	3.0	42
42	Rapid changes in NADH and flavin autofluorescence in rat cardiac trabeculae reveal large mitochondrial complex II reserve capacity. Journal of Physiology, 2015, 593, 1829-1840.	2.9	18
43	Decreased creatine kinase is linked to diastolic dysfunction in rats with right heart failure induced by pulmonary artery hypertension. Journal of Molecular and Cellular Cardiology, 2015, 86, 1-8.	1.9	40
44	Slowed muscle oxygen uptake kinetics with raised metabolism are not dependent on blood flow or recruitment dynamics. Journal of Physiology, 2014, 592, 1857-1871.	2.9	27
45	Muscle physiology: move to translation. Journal of Muscle Research and Cell Motility, 2014, 35, 1-2.	2.0	0
46	Onâ€"off asymmetries in oxygen consumption kinetics of single Xenopus laevis skeletal muscle fibres suggest higherâ€order control. Journal of Physiology, 2013, 591, 731-744.	2.9	40
47	Regional skeletal muscle remodeling and mitochondrial dysfunction in right ventricular heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H402-H411.	3.2	43
48	Kinetic control of oxygen consumption during contractions in selfâ€perfused skeletal muscle. Journal of Physiology, 2011, 589, 3995-4009.	2.9	56
49	Implications of rapid early oxygen consumption in exercising skeletal muscle: The empirical, the theoretical and the rational. Journal of Physiology, 2011, 589, 6245-6246.	2.9	2
50	Changes in contractile properties of skinned single rat soleus and diaphragm fibres after chronic hypoxia. Pflugers Archiv European Journal of Physiology, 2010, 460, 863-873.	2.8	25
51	Effects of Smoking on Tibial and Radial Bone Mass and Strength May Diminish with Age. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 2763-2771.	3.6	9
52	Fiber Capillary Supply Related To Fiber Size And Oxidative Capacity In Human And Rat Skeletal Muscle. Advances in Experimental Medicine and Biology, 2009, 645, 75-80.	1.6	52
53	Skeletal muscle properties and fatigue resistance in relation to smoking history. European Journal of Applied Physiology, 2008, 104, 103-110.	2.5	98
54	Carbon monoxide inhalation reduces skeletal muscle fatigue resistance. Acta Physiologica, 2008, 192, 397-401.	3.8	28

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55	Sex differences in contractile properties and fatigue resistance of human skeletal muscle. Experimental Physiology, 2008, 93, 843-850.	2.0	136
56	Breath-by-breath changes of lung oxygen stores at rest and during exercise in humans. Respiratory Physiology and Neurobiology, 2008, 164, 291-299.	1.6	23
57	Skeletal muscle capillarization and oxidative metabolism in healthy smokers. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1240-1245.	1.9	20
58	Muscle Function in Smokers: Clearing Up the Smoke. Chest, 2008, 134, 219-220.	0.8	1
59	Muscle fatigue resistance during stimulated contractions is reduced in young male smokers. Acta Physiologica, 2007, 191, 123-129.	3.8	38
60	The effect of ambient temperature on gross-efficiency in cycling. European Journal of Applied Physiology, 2007, 101, 465-471.	2.5	54
61	Factors contributing to muscle wasting and dysfunction in COPD patients. International Journal of COPD, 2007, 2, 289-300.	2.3	91