

Thomas Jue

List of Publications by Year in descending order

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51
papers

2,434
citations

257101

24
h-index

223531

46
g-index

52
all docs

52
docs citations

52
times ranked

2163
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitation of Muscle Glycogen Synthesis in Normal Subjects and Subjects with Non-Insulin-Dependent Diabetes by ¹³ C Nuclear Magnetic Resonance Spectroscopy. <i>New England Journal of Medicine</i> , 1990, 322, 223-228.	13.9	1,181
2	Comparative analysis of NMR and NIRS measurements of intracellular P O 2 in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 276, R1682-R1690.	0.9	106
3	Myoglobin desaturation with exercise intensity in human gastrocnemius muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R173-R180.	0.9	99
4	Myoglobin's old and new clothes: from molecular structure to function in living cells. <i>Journal of Experimental Biology</i> , 2010, 213, 2713-2725.	0.8	95
5	Metabolic fluctuation during a muscle contraction cycle. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C846-C852.	2.1	64
6	Control of respiration and bioenergetics during muscle contraction. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C730-C738.	2.1	56
7	Blood flow and metabolic regulation in seal muscle during apnea. <i>Journal of Experimental Biology</i> , 2008, 211, 3323-3332.	0.8	54
8	Myoglobin translational diffusion in rat myocardium and its implication on intracellular oxygen transport. <i>Journal of Physiology</i> , 2007, 578, 595-603.	1.3	52
9	Interaction of fatty acid with myoglobin. <i>FEBS Letters</i> , 2008, 582, 3643-3649.	1.3	49
10	Impaired skeletal muscle mitochondrial bioenergetics and physical performance in chronic kidney disease. <i>JCI Insight</i> , 2020, 5, .	2.3	48
11	Anisotropy and Temperature Dependence of Myoglobin Translational Diffusion in Myocardium: Implication for Oxygen Transport and Cellular Architecture. <i>Biophysical Journal</i> , 2007, 92, 2608-2620.	0.2	38
12	Oxygen supply and oxidative phosphorylation limitation in rat myocardium in situ. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H2030-H2037.	1.5	33
13	Implication of CO inactivation on myoglobin function. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1616-C1624.	2.1	33
14	Hyperpolarized ¹³ C NMR observation of lactate kinetics in skeletal muscle. <i>Journal of Experimental Biology</i> , 2015, 218, 3308-18.	0.8	33
15	Comparative NMR and NIRS analysis of oxygen-dependent metabolism in exercising finger flexor muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R740-R753.	0.9	33
16	Determination of myoglobin concentration in blood-perfused tissue. <i>European Journal of Applied Physiology</i> , 2008, 104, 41-48.	1.2	31
17	¹ H-NMR characterization of the human myocardium myoglobin and erythrocyte hemoglobin signals. <i>BBA - Proteins and Proteomics</i> , 1993, 1161, 33-37.	2.1	29
18	Role of myoglobin as a scavenger of cellular NO in myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 286, H985-H991.	1.5	28

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19	â€˜It's hollowâ€™: the function of pores within myoglobin. <i>Journal of Experimental Biology</i> , 2010, 213, 2748-2754.	0.8	28
20	Palmitate interaction with physiological states of myoglobin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 656-666.	1.1	28
21	Myoglobin and the regulation of mitochondrial respiratory chain complex IV. <i>Journal of Physiology</i> , 2016, 594, 483-495.	1.3	27
22	Carbon monoxide inhibition of regulatory pathways in myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H2143-H2151.	1.5	26
23	Effect of fatty acid interaction on myoglobin oxygen affinity and triglyceride metabolism. <i>Journal of Physiology and Biochemistry</i> , 2016, 73, 359-370.	1.3	26
24	Detection of myoglobin desaturation in <i>Mirounga angustirostris</i> during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R267-R272.	0.9	25
25	Quantification of myoglobin deoxygenation and intracellular partial pressure of O ₂ during muscle contraction during haemoglobin-free medium perfusion. <i>Experimental Physiology</i> , 2010, 95, 630-640.	0.9	23
26	Two-Dimensional NMR Characterization of the Deoxymyoglobin Heme Pocket. <i>Biochemistry</i> , 1994, 33, 10934-10943.	1.2	18
27	NIRS Measurement of O ₂ Dynamics in Contracting Blood and Buffer Perfused Hindlimb Muscle. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 323-328.	0.8	17
28	Spatial distribution of deoxy myoglobin in human muscle: an index of local tissue oxygenation. <i>NMR in Biomedicine</i> , 1999, 12, 26-30.	1.6	16
29	Regulation of respiration in myocardium in the transient and steady state. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H1410-H1417.	1.5	15
30	Interaction of myoglobin with oleic acid. <i>Chemistry and Physics of Lipids</i> , 2015, 191, 115-122.	1.5	15
31	Imaging apolipoprotein AI <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2011, 24, 916-924.	1.6	12
32	Observing the deoxy-myoglobin and hemoglobin signals from rat myocardium in situ. <i>FEBS Letters</i> , 1998, 434, 309-312.	1.3	11
33	EPR assessment of protein sites for incorporation of Gd(III) MRI contrast labels. <i>Contrast Media and Molecular Imaging</i> , 2013, 8, 252-264.	0.4	11
34	Investigation of bioactive NO-scavenging role of myoglobin in myocardium. <i>Pflugers Archiv European Journal of Physiology</i> , 2006, 452, 36-42.	1.3	10
35	Hyperpolarized ¹³ C MR Spectroscopy Depicts in Vivo Effect of Exercise on Pyruvate Metabolism in Human Skeletal Muscle. <i>Radiology</i> , 2021, 300, 626-632.	3.6	10
36	Endurance training facilitates myoglobin desaturation during muscle contraction in rat skeletal muscle. <i>Scientific Reports</i> , 2015, 5, 9403.	1.6	9

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37	1H-NMR Signal of Arenicola marina Myoglobin in vivo as an Index of Tissue Oxygenation. FEBS Journal, 1996, 235, 622-628.	0.2	8
38	Localization of myoglobin in mitochondria: implication in regulation of mitochondrial respiration in rat skeletal muscle. Physiological Reports, 2021, 9, e14769.	0.7	7
39	Metabolic Response in Arenicola marina to Limiting Oxygen as Reflected in the 1H-NMR Oxymyoglobin Signal. FEBS Journal, 1997, 243, 233-239.	0.2	6
40	Differential Interaction of Myoglobin with Select Fatty Acids of Carbon Chain Lengths C8 to C16. Lipids, 2017, 52, 711-727.	0.7	5
41	Myoglobin and O2 Consumption in Exercising Human Gastrocnemius Muscle. Advances in Experimental Medicine and Biology, 1999, 471, 289-294.	0.8	5
42	Intracellular oxygen tension limits muscle contraction-induced change in muscle oxygen consumption under hypoxic conditions during Hb-free perfusion. Physiological Reports, 2017, 5, e13112.	0.7	3
43	Oximetry with the NMR signals of hemoglobin Val E11 and Tyr C7. European Journal of Applied Physiology, 2009, 107, 325-333.	1.2	2
44	Noninvasive NMR and NIRS Measurement of Vascular and Intracellular Oxygenation In Vivo. , 2013, , 123-137.		2
45	A mouse model and ¹⁹ F NMR approach to investigate the effects of sialic acid supplementation on cognitive development. FEBS Letters, 2020, 594, 135-143.	1.3	2
46	Hyperpolarized NMR study of the impact of pyruvate dehydrogenase kinase inhibition on the pyruvate dehydrogenase and TCA flux in type 2 diabetic rat muscle. Pflugers Archiv European Journal of Physiology, 2021, 473, 1761-1773.	1.3	2
47	Role of Myoglobin in Regulating Respiration. Advances in Experimental Medicine and Biology, 2003, 530, 671-680.	0.8	2
48	Bioenergetics Implication of Metabolic Fluctuation during Muscle Contraction. , 2005, , 103-123.		1
49	Synthesis of edatexate (2-13C-glutamate). Journal of Labelled Compounds and Radiopharmaceuticals, 1997, 39, 99-103.	0.5	0
50	Insights on Lactate Metabolism in Skeletal Muscle Based on 13C Dynamic Nuclear Polarization Studies. , 2021, , 237-251.		0
51	Muscle immobilization delays abrupt change in myoglobin saturation at onset of muscle contraction. The Journal of Physical Fitness and Sports Medicine, 2022, 11, 87-96.	0.2	0