

# Thomas Jue

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52  
papers

2,068  
citations

21  
h-index

45  
g-index

52  
ext. papers

2,211  
ext. citations

5.2  
avg. IF

4.11  
L-index

#	Paper	IF	Citations
52	Quantitation of muscle glycogen synthesis in normal subjects and subjects with non-insulin-dependent diabetes by <sup>13</sup> C nuclear magnetic resonance spectroscopy. <i>New England Journal of Medicine</i> , <b>1990</b> , 322, 223-8	59.2	1052
51	Myoglobin desaturation with exercise intensity in human gastrocnemius muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1999</b> , 277, R173-80	3.2	85
50	Comparative analysis of NMR and NIRS measurements of intracellular PO <sub>2</sub> in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>1999</b> , 276, R1682-90	3.2	82
49	Myoglobins: old and new clothes: from molecular structure to function in living cells. <i>Journal of Experimental Biology</i> , <b>2010</b> , 213, 2713-25	3	74
48	Metabolic fluctuation during a muscle contraction cycle. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 274, C846-52	5.4	62
47	Control of respiration and bioenergetics during muscle contraction. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 288, C730-8	5.4	53
46	Blood flow and metabolic regulation in seal muscle during apnea. <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 3323-32	3	47
45	Myoglobin translational diffusion in rat myocardium and its implication on intracellular oxygen transport. <i>Journal of Physiology</i> , <b>2007</b> , 578, 595-603	3.9	43
44	Interaction of fatty acid with myoglobin. <i>FEBS Letters</i> , <b>2008</b> , 582, 3643-9	3.8	35
43	Anisotropy and temperature dependence of myoglobin translational diffusion in myocardium: implication for oxygen transport and cellular architecture. <i>Biophysical Journal</i> , <b>2007</b> , 92, 2608-20	2.9	34
42	Implication of CO inactivation on myoglobin function. <i>American Journal of Physiology - Cell Physiology</i> , <b>2006</b> , 290, C1616-24	5.4	30
41	H-NMR characterization of the human myocardium myoglobin and erythrocyte hemoglobin signals. <i>BBA - Proteins and Proteomics</i> , <b>1993</b> , 1161, 33-7		29
40	Oxygen supply and oxidative phosphorylation limitation in rat myocardium in situ. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2001</b> , 280, H2030-7	5.2	28
39	Determination of myoglobin concentration in blood-perfused tissue. <i>European Journal of Applied Physiology</i> , <b>2008</b> , 104, 41-8	3.4	27
38	Role of myoglobin as a scavenger of cellular NO in myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H985-91	5.2	26
37	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> , <b>2017</b> , 313, R740-R753	3.2	25
36	Hyperpolarized <sup>13</sup> C NMR observation of lactate kinetics in skeletal muscle. <i>Journal of Experimental Biology</i> , <b>2015</b> , 218, 3308-18	3	24

35	It is hollow the function of pores within myoglobin. <i>Journal of Experimental Biology</i> , <b>2010</b> , 213, 2748-543		24
34	Detection of myoglobin desaturation in <i>Mirounga angustirostris</i> during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2002</b> , 282, R267-72	3.2	24
33	Carbon monoxide inhibition of regulatory pathways in myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 274, H2143-51	5.2	23
32	Palmitate interaction with physiological states of myoglobin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 656-66	4	21
31	Impaired skeletal muscle mitochondrial bioenergetics and physical performance in chronic kidney disease. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	20
30	Quantification of myoglobin deoxygenation and intracellular partial pressure of O <sub>2</sub> during muscle contraction during haemoglobin-free medium perfusion. <i>Experimental Physiology</i> , <b>2010</b> , 95, 630-40	2.4	18
29	Two-dimensional NMR characterization of the deoxymyoglobin heme pocket. <i>Biochemistry</i> , <b>1994</b> , 33, 10934-43	3.2	18
28	Myoglobin and the regulation of mitochondrial respiratory chain complex IV. <i>Journal of Physiology</i> , <b>2016</b> , 594, 483-95	3.9	17
27	Spatial distribution of deoxymyoglobin in human muscle: an index of local tissue oxygenation. <i>NMR in Biomedicine</i> , <b>1999</b> , 12, 26-30	4.4	16
26	NIRS measurement of O <sub>2</sub> dynamics in contracting blood and buffer perfused hindlimb muscle. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 662, 323-8	3.6	16
25	Regulation of respiration in myocardium in the transient and steady state. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 277, H1410-7	5.2	14
24	Interaction of myoglobin with oleic acid. <i>Chemistry and Physics of Lipids</i> , <b>2015</b> , 191, 115-22	3.7	11
23	Imaging apolipoprotein AI in vivo. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 916-24	4.4	11
22	Observing the deoxy myoglobin and hemoglobin signals from rat myocardium in situ. <i>FEBS Letters</i> , <b>1998</b> , 434, 309-12	3.8	11
21	EPR assessment of protein sites for incorporation of Gd(III) MRI contrast labels. <i>Contrast Media and Molecular Imaging</i> , <b>2013</b> , 8, 252-64	3.2	10
20	Effect of fatty acid interaction on myoglobin oxygen affinity and triglyceride metabolism. <i>Journal of Physiology and Biochemistry</i> , <b>2016</b> , 73, 359-370	5	10
19	Investigation of bioactive NO-scavenging role of myoglobin in myocardium. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2006</b> , 452, 36-42	4.6	9
18	H-NMR signal of <i>Arenicola marina</i> myoglobin in vivo as an index of tissue oxygenation. <i>FEBS Journal</i> , <b>1996</b> , 235, 622-8		7

17	Endurance training facilitates myoglobin desaturation during muscle contraction in rat skeletal muscle. <i>Scientific Reports</i> , <b>2015</b> , 5, 9403	4.9	6
16	Metabolic response in <i>Arenicola marina</i> to limiting oxygen as reflected in the 1H-NMR oxymyoglobin signal. <i>FEBS Journal</i> , <b>1997</b> , 243, 233-9		5
15	Myoglobin and O2 consumption in exercising human gastrocnemius muscle. <i>Advances in Experimental Medicine and Biology</i> , <b>1999</b> , 471, 289-94	3.6	5
14	Intracellular oxygen tension limits muscle contraction-induced change in muscle oxygen consumption under hypoxic conditions during Hb-free perfusion. <i>Physiological Reports</i> , <b>2017</b> , 5, e13112	2.6	3
13	Hyperpolarized C MR Spectroscopy Depicts in Vivo Effect of Exercise on Pyruvate Metabolism in Human Skeletal Muscle. <i>Radiology</i> , <b>2021</b> , 300, 626-632	20.5	3
12	Noninvasive NMR and NIRS Measurement of Vascular and Intracellular Oxygenation In Vivo <b>2013</b> , 123-137		2
11	Localization of myoglobin in mitochondria: implication in regulation of mitochondrial respiration in rat skeletal muscle. <i>Physiological Reports</i> , <b>2021</b> , 9, e14769	2.6	2
10	Differential Interaction of Myoglobin with Select Fatty Acids of Carbon Chain Lengths C8 to C16. <i>Lipids</i> , <b>2017</b> , 52, 711-727	1.6	1
9	Oximetry with the NMR signals of hemoglobin Val E11 and Tyr C7. <i>European Journal of Applied Physiology</i> , <b>2009</b> , 107, 325-33	3.4	1
8	Bioenergetics Implication of Metabolic Fluctuation during Muscle Contraction <b>2005</b> , 103-123		1
7	A mouse model and F NMR approach to investigate the effects of sialic acid supplementation on cognitive development. <i>FEBS Letters</i> , <b>2020</b> , 594, 135-143	3.8	1
6	Hyperpolarized NMR study of the impact of pyruvate dehydrogenase kinase inhibition on the pyruvate dehydrogenase and TCA flux in type 2 diabetic rat muscle. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2021</b> , 473, 1761-1773	4.6	1
5	Role of myoglobin in regulating respiration. <i>Advances in Experimental Medicine and Biology</i> , <b>2003</b> , 530, 671-80	3.6	1
4	Measuring Intracellular Oxygenation with Myoglobin MRS <b>2015</b> , 635-642		
3	Synthesis of edatrexate (2-13C-glutamate). <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , <b>1997</b> , 39, 99-103	1.9	
2	Insights on Lactate Metabolism in Skeletal Muscle Based on 13C Dynamic Nuclear Polarization Studies <b>2021</b> , 237-251		
1	Muscle immobilization delays abrupt change in myoglobin saturation at onset of muscle contraction. <i>The Journal of Physical Fitness and Sports Medicine</i> , <b>2022</b> , 11, 87-96	0.5	