

Abram Katz

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.

39
papers

983
citations

16
h-index

31
g-index

40
ext. papers

1,081
ext. citations

4.2
avg, IF

3.95
L-index

#	Paper	IF	Citations
39	Role of reactive oxygen species in contraction-mediated glucose transport in mouse skeletal muscle. <i>Journal of Physiology</i> , 2006 , 575, 251-62	3.9	165
38	Respiratory chain dysfunction in skeletal muscle does not cause insulin resistance. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 350, 202-7	3.4	122
37	Is creatine kinase responsible for fatigue? Studies of isolated skeletal muscle deficient in creatine kinase. <i>FASEB Journal</i> , 2000 , 14, 982-90	0.9	79
36	Role of myoplasmic phosphate in contractile function of skeletal muscle: studies on creatine kinase-deficient mice. <i>Journal of Physiology</i> , 2001 , 533, 379-88	3.9	68
35	Effects of glucose on contractile function, $[Ca^{2+}]_i$, and glycogen in isolated mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C1306-12	5.4	53
34	Modulation of glucose transport in skeletal muscle by reactive oxygen species. <i>Journal of Applied Physiology</i> , 2007 , 102, 1671-6	3.7	52
33	TNF- α -mediated caspase-8 activation induces ROS production and TRPM2 activation in adult ventricular myocytes. <i>Cardiovascular Research</i> , 2014 , 103, 90-9	9.9	51
32	Cross bridges account for only 20% of total ATP consumption during submaximal isometric contraction in mouse fast-twitch skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 291, C147-54	5.4	45
31	Effect of creatine feeding on maximal exercise performance in vegetarians. <i>European Journal of Applied Physiology</i> , 2000 , 82, 321-5	3.4	34
30	Mechanical load plays little role in contraction-mediated glucose transport in mouse skeletal muscle. <i>Journal of Physiology</i> , 2007 , 579, 527-34	3.9	25
29	Role of Oxygen in Regulation of Glycolysis and Lactate Production in Human Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 1990 , 18, 1??28	6.7	25
28	Diminished skin blood flow in Type I diabetes: evidence for non-endothelium-dependent dysfunction. <i>Clinical Science</i> , 2001 , 101, 59-64	6.5	24
27	Mechanism of glycogen supercompensation in rat skeletal muscle cultures. <i>Molecular and Cellular Biochemistry</i> , 2003 , 250, 11-9	4.2	20
26	Prolonged force depression after mechanically demanding contractions is largely independent of Ca and reactive oxygen species. <i>FASEB Journal</i> , 2017 , 31, 4809-4820	0.9	19
25	Manganese sulfate-dependent glycosylation of endogenous glycoproteins in human skeletal muscle is catalyzed by a nonglucose 6-P-dependent glycogen synthase and not glycogenin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999 , 1427, 1-12	4	19
24	Glycogen metabolism in rat heart muscle cultures after hypoxia. <i>Molecular and Cellular Biochemistry</i> , 2003 , 254, 311-8	4.2	18
23	Effects of N-acetylcysteine on isolated mouse skeletal muscle: contractile properties, temperature dependence, and metabolism. <i>Pflugers Archiv European Journal of Physiology</i> , 2014 , 466, 577-85	4.6	16

22	Contraction-mediated glycogenolysis in mouse skeletal muscle lacking creatine kinase: the role of phosphorylase b activation. <i>Journal of Physiology</i> , 2003 , 553, 523-31	3.9	16
21	Exercise training attenuates experimental autoimmune encephalomyelitis by peripheral immunomodulation rather than direct neuroprotection. <i>Experimental Neurology</i> , 2018 , 299, 56-64	5.7	15
20	The Role of Reactive Oxygen Species in Adrenergic Signaling in Cardiomyocytes from Mice with the Metabolic Syndrome. <i>PLoS ONE</i> , 2016 , 11, e0167090	3.7	14
19	Regulation of glycogen breakdown and its consequences for skeletal muscle function after training. <i>Mammalian Genome</i> , 2014 , 25, 464-72	3.2	13
18	Acute exercise reverses starvation-mediated insulin resistance in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E436-43	6	13
17	Insulin-independent glycogen supercompensation in isolated mouse skeletal muscle: role of phosphorylase inactivation. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 448, 533-8	4.6	13
16	Rapid activation of glycogen synthase and protein phosphatase in human skeletal muscle after isometric contraction requires an intact circulation. <i>Pflugers Archiv European Journal of Physiology</i> , 1995 , 431, 259-65	4.6	13
15	Role of reactive oxygen species in regulation of glucose transport in skeletal muscle during exercise. <i>Journal of Physiology</i> , 2016 , 594, 2787-94	3.9	12
14	Glucose intolerance and pancreatic β cell dysfunction in the anorectic anx/anx mouse. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E418-27	6	9
13	Insulin-mediated activation of glycogen synthase in isolated skeletal muscle: role of mitochondrial respiration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1995 , 1244, 229-32	4	6
12	Isoproterenol enhances force production in mouse glycolytic and oxidative muscle via separate mechanisms. <i>Pflugers Archiv European Journal of Physiology</i> , 2019 , 471, 1305-1316	4.6	5
11	Effect of postexercise temperature elevation on postexercise glycogen metabolism of isolated mouse soleus muscle. <i>Journal of Applied Physiology</i> , 2019 , 126, 1103-1109	3.7	4
10	Altered glycogen synthase and phosphorylase activities in skeletal muscle of tetraplegic patients. <i>Experimental Physiology</i> , 2001 , 86, 205-9	2.4	4
9	Heating after intense repeated contractions inhibits glycogen accumulation in mouse EDL muscle: role of phosphorylase in postexercise glycogen metabolism. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C706-C713	5.4	3
8	Acute normobaric hypoxia blunts contraction-mediated mTORC1- and JNK-signaling in human skeletal muscle.. <i>Acta Physiologica</i> , 2022 , e13771	5.6	2
7	Weak electromagnetic fields alter Ca ²⁺ handling and protect against hypoxia-mediated damage in primary newborn rat myotube cultures. <i>Pflugers Archiv European Journal of Physiology</i> , 2016 , 468, 1459-65	4.6	2
6	Defects in Galactose Metabolism and Glycoconjugate Biosynthesis in a UDP-Glucose Pyrophosphorylase-Deficient Cell Line Are Reversed by Adding Galactose to the Growth Medium. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
5	Role of nitration in control of phosphorylase and glycogenolysis in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021 , 320, E691-E701	6	1

4	A century of exercise physiology: key concepts in regulation of glycogen metabolism in skeletal muscle.. <i>European Journal of Applied Physiology</i> , 2022 , 1	3.4	1
3	Reactive oxygen species and glucose transport during exercise 2007 , 16-17		
2	Knock down of TRPC3 decreases Ca ²⁺ influx and insulin-mediated glucose uptake in adult skeletal muscle. <i>FASEB Journal</i> , 2008 , 22, 1226.5	0.9	
1	Defects in galactose metabolism and glycoconjugate biosynthesis in UDP-glucose pyrophosphorylase-deficient fibroblasts are reversed by supplementing the cell growth medium with galactose. <i>FASEB Journal</i> , 2012 , 26, lb234	0.9	