Abram Katz

List of Publications by Year
in descending order

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40 papers	1,197 citations	394286 19 h-index	377752 34 g-index
40 all docs	40 docs citations	40 times ranked	1653 citing authors

#	Article	IF	Citations
1	Role of reactive oxygen species in contraction-mediated glucose transport in mouse skeletal muscle. Journal of Physiology, 2006, 575, 251-262.	1.3	184
2	Respiratory chain dysfunction in skeletal muscle does not cause insulin resistance. Biochemical and Biophysical Research Communications, 2006, 350, 202-207.	1.0	134
3	Is creatine kinase responsible for fatigue? Studies of isolated skeletal muscle deficient in creatine kinase. FASEB Journal, 2000, 14, 982-990.	0.2	91
4	Role of myoplasmic phosphate in contractile function of skeletal muscle: studies on creatine kinaseâ€deficient mice. Journal of Physiology, 2001, 533, 379-388.	1.3	72
5	TNF-Â-mediated caspase-8 activation induces ROS production and TRPM2 activation in adult ventricular myocytes. Cardiovascular Research, 2014, 103, 90-99.	1.8	67
6	Effects of glucose on contractile function, [Ca²⁺]_i, and glycogen in isolated mouse skeletal muscle. American Journal of Physiology - Cell Physiology, 2002, 282, C1306-C1312.	2.1	62
7	Modulation of glucose transport in skeletal muscle by reactive oxygen species. Journal of Applied Physiology, 2007, 102, 1671-1676.	1.2	62
8	Cross bridges account for only 20% of total ATP consumption during submaximal isometric contraction in mouse fast-twitch skeletal muscle. American Journal of Physiology - Cell Physiology, 2006, 291, C147-C154.	2.1	48
9	Effect of creatine feeding on maximal exercise performance in vegetarians. European Journal of Applied Physiology, 2000, 82, 321-325.	1.2	41
10	Role of Oxygen in Regulation of Glycolysis and Lactate Production in Human Skeletal Muscle. Exercise and Sport Sciences Reviews, 1990, 18, 1???28.	1.6	40
11	Prolonged force depression after mechanically demanding contractions is largely independent of Ca ²⁺ and reactive oxygen species. FASEB Journal, 2017, 31, 4809-4820.	0.2	29
12	Glycogen metabolism in rat heart muscle cultures after hypoxia. Molecular and Cellular Biochemistry, 2003, 254, 311-318.	1.4	28
13	Diminished skin blood flow in Type I diabetes: evidence for non-endothelium-dependent dysfunction. Clinical Science, 2001, 101, 59-64.	1.8	26
14	Exercise training attenuates experimental autoimmune encephalomyelitis by peripheral immunomodulation rather than direct neuroprotection. Experimental Neurology, 2018, 299, 56-64.	2.0	26
15	Mechanical load plays little role in contraction-mediated glucose transport in mouse skeletal muscle. Journal of Physiology, 2007, 579, 527-534.	1.3	25
16	Manganese sulfate-dependent glycosylation of endogenous glycoproteins in human skeletal muscle is catalyzed by a nonglucose 6-P-dependent glycogen synthase and not glycogenin. Biochimica Et Biophysica Acta - General Subjects, 1999, 1427, 1-12.	1.1	23
17	Mechanism of glycogen supercompensation in rat skeletal muscle cultures. Molecular and Cellular Biochemistry, 2003, 250, 11-19.	1.4	22
18	Acute exercise reverses starvation-mediated insulin resistance in humans. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E436-E443.	1.8	21

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19	Effects of N-acetylcysteine on isolated mouse skeletal muscle: contractile properties, temperature dependence, and metabolism. Pflugers Archiv European Journal of Physiology, 2014, 466, 577-585.	1.3	19
20	Contractionâ€mediated glycogenolysis in mouse skeletal muscle lacking creatine kinase: the role of phosphorylase b activation. Journal of Physiology, 2003, 553, 523-531.	1.3	16
21	Regulation of glycogen breakdown and its consequences for skeletal muscle function after training. Mammalian Genome, 2014, 25, 464-472.	1.0	16
22	The Role of Reactive Oxygen Species in Î²-Adrenergic Signaling in Cardiomyocytes from Mice with the Metabolic Syndrome. PLoS ONE, 2016, 11, e0167090.	1.1	16
23	Rapid activation of glycogen synthase and protein phosphatase in human skeletal muscle after isometric contraction requires an intact circulation. Pflugers Archiv European Journal of Physiology, 1995, 431, 259-265.	1.3	14
24	Insulin-independent glycogen supercompensation in isolated mouse skeletal muscle: role of phosphorylase inactivation. Pflugers Archiv European Journal of Physiology, 2004, 448, 533-8.	1.3	14
25	Role of reactive oxygen species in regulation of glucose transport in skeletal muscle during exercise. Journal of Physiology, 2016, 594, 2787-2794.	1.3	14
26	A century of exercise physiology: key concepts in regulation of glycogen metabolism in skeletal muscle. European Journal of Applied Physiology, 2022, 122, 1751-1772.	1.2	14
27	Acute normobaric hypoxia blunts contractionâ€mediated mTORC1â€and JNKâ€signaling in human skeletal muscle. Acta Physiologica, 2022, 234, e13771.	1.8	12
28	Glucose intolerance and pancreatic Î²-cell dysfunction in the anorecticanx/anxmouse. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E418-E427.	1.8	10
29	Insulin-mediated activation of glycogen synthase in isolated skeletal muscle: role of mitochondrial respiration. Biochimica Et Biophysica Acta - General Subjects, 1995, 1244, 229-232.	1.1	8
30	Isoproterenol enhances force production in mouse glycolytic and oxidative muscle via separate mechanisms. Pflugers Archiv European Journal of Physiology, 2019, 471, 1305-1316.	1.3	7
31	Defects in Galactose Metabolism and Glycoconjugate Biosynthesis in a UDP-Glucose Pyrophosphorylase-Deficient Cell Line Are Reversed by Adding Galactose to the Growth Medium. International Journal of Molecular Sciences, 2020, 21, 2028.	1.8	7
32	Weak electromagnetic fields alter Ca2+ handling and protect against hypoxia-mediated damage in primary newborn rat myotube cultures. Pflugers Archiv European Journal of Physiology, 2016, 468, 1459-1465.	1.3	6
33	Heating after intense repeated contractions inhibits glycogen accumulation in mouse EDL muscle: role of phosphorylase in postexercise glycogen metabolism. American Journal of Physiology - Cell Physiology, 2018, 315, C706-C713.	2.1	6
34	Effect of postexercise temperature elevation on postexercise glycogen metabolism of isolated mouse soleus muscle. Journal of Applied Physiology, 2019, 126, 1103-1109.	1.2	6
35	Extreme Variations in Muscle Fiber Composition Enable Detection of Insulin Resistance and Excessive Insulin Secretion. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e2729-e2737.	1.8	5
36	Altered Glycogen Synthase and Phosphorylase Activities in Skeletal Muscle of Tetraplegic Patients. Experimental Physiology, 2001, 86, 205-209.	0.9	4

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37	Role of nitration in control of phosphorylase and glycogenolysis in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E691-E701.	1.8	2
38	Reactive oxygen species and glucose transport during exercise. , 2007, , 16-17.		0
39	Knock down of TRPC3 decreases Ca 2+ influx and insulinâ€mediated glucose uptake in adult skeletal muscle. FASEB Journal, 2008, 22, 1226.5.	0.2	0
40	Defects in galactose metabolism and glycoconjugate biosynthesis in UDPâ€glucose pyrophosphorylaseâ€deficient fibroblasts are reversed by supplementing the cell growth medium with galactose. FASEB Journal, 2012, 26, lb234.	0.2	0