Weikang

List of Publications by Citations

26 papers	321 citations	9 h-index	17 g-index
60 ext. papers	637 ext. citations	4.6 avg, IF	3.33 L-index

#	Paper	IF	Citations
26	Deciphering the super relaxed state of human β-cardiac myosin and the mode of action of mavacamten from myosin molecules to muscle fibers. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8143-E8152	11.5	117
25	Nebulin stiffens the thin filament and augments cross-bridge interaction in skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10369-10374	11.5	26
24	Myosin Head Configurations in Resting and Contracting Murine Skeletal Muscle. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	23
23	Thick-Filament Extensibility in Intact Skeletal Muscle. *Biophysical Journal*, **2018**, 115, 1580-1588	2.9	21
22	KBTBD13 is an actin-binding protein that modulates muscle kinetics. *Journal of Clinical Investigation*, **2020**, 130, 754-767	15.9	15
21	The myosin interacting-heads motif present in live tarantula muscle explains tetanic and posttetanic phosphorylation mechanisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11865-11874	11.5	15
20	Structural and functional impact of troponin C-mediated Ca sensitization on myofilament lattice spacing and cross-bridge mechanics in mouse cardiac muscle. *Journal of Molecular and Cellular Cardiology*, **2018**, 123, 26-37	5.8	11
19	Cardiac myosin activation with 2-deoxy-ATP via increased electrostatic interactions with actin. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11502-11507	11.5	10
18	Dysfunctional sarcomere contractility contributes to muscle weakness in ACTA1-related nemaline myopathy (NEM3). *Annals of Neurology*, **2018**, 83, 269-282	9.4	10
17	Evidence for Actin Filament Structural Changes after Active Shortening in Skinned Muscle Bundles. *Biophysical Journal*, **2018**, 114, 135a	2.9	9
16	Myosin dynamics during relaxation in mouse soleus muscle and modulation by 2-deoxy-ATP. *Journal of Physiology*, **2020**, 598, 5165-5182	3.9	7
15	Elastic proteins in the flight muscle of Manduca sexta. *Archives of Biochemistry and Biophysics*, **2015**, 568, 16-27	4.1	6
14	Slow-twitch skeletal muscle defects accompany cardiac dysfunction in transgenic mice with a mutation in the myosin regulatory light chain. *FASEB Journal*, **2019**, 33, 3152-3166	0.9	6
13	The Super-Relaxed State and Length Dependent Activation in Porcine Myocardium. *Circulation Research*, **2021**, 129, 617-630	15.7	5
12	Nanometer-scale structure differences in the myofilament lattice spacing of two cockroach leg muscles correspond to their different functions. *Journal of Experimental Biology*, **2020**, 223,	3	4
11	X-ray Diffraction of Intact Murine Skeletal Muscle as a Tool for Studying the Structural Basis of Muscle Disease. *Journal of Visualized Experiments*, **2019**,	1.6	4
10	X-ray diffraction and simultaneous EMG reveal the time course of myofilament lattice dilation and filament stretch. *Journal of Experimental Biology*, **2020**, 223,	3	4

9	Triggering typical nemaline myopathy with compound heterozygous nebulin mutations reveals myofilament structural changes as pathomechanism. *Nature Communications*, **2020**, 11, 2699	17.4	3
8	Lattice arrangement of myosin filaments correlates with fiber type in rat skeletal muscle. *Journal of General Physiology*, **2019**, 151, 1404-1412	3.4	3
7	Two Classes of Myosin Inhibitors, Para-nitroblebbistatin and Mavacamten, Stabilize β-Cardiac Myosin in Different Structural and Functional States. *Journal of Molecular Biology*, **2021**, 433, 167295	6.5	3
6	Pathogenic variants in TNNC2 cause congenital myopathy due to an impaired force response to calcium. *Journal of Clinical Investigation*, **2021**, 131,	15.9	3
5	Relaxed tarantula skeletal muscle has two ATP energy-saving mechanisms. *Journal of General Physiology*, **2021**, 153,	3.4	3
4	Fast skeletal myosin-binding protein-C regulates fast skeletal muscle contraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
3	Amino terminus of cardiac myosin binding protein-C regulates cardiac contractility. *Journal of Molecular and Cellular Cardiology*, **2021**, 156, 33-44	5.8	2
2	Response to: Thick Filament Length Changes in Muscle Have Both Elastic and Structural Components. *Biophysical Journal*, **2019**, 116, 985-986	2.9	1
1	GSK-3β Localizes to the Cardiac Z-Disc to Maintain Length Dependent Activation.. *Circulation Research*, **2022**, CIRCRESAHA121319491	15.7	1