

# Yin-Biao Sun

## List of Publications by Year in descending order

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36  
papers

1,568  
citations

361045

20  
h-index

360668

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	The myosin motor in muscle generates a smaller and slower working stroke at higher load. <i>Nature</i> , 2004, 428, 578-581.	13.7	183
2	Mechanism of force generation by myosin heads in skeletal muscle. <i>Nature</i> , 2002, 415, 659-662.	13.7	133
3	Myosin light chain phosphorylation enhances contraction of heart muscle via structural changes in both thick and thin filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3039-47.	3.3	105
4	Myosin binding protein-C activates thin filaments and inhibits thick filaments in heart muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18763-18768.	3.3	103
5	Conformation of the myosin motor during force generation in skeletal muscle. <i>Nature Structural Biology</i> , 2000, 7, 482-485.	9.7	98
6	Skeletal muscle resists stretch by rapid binding of the second motor domain of myosin to actin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20114-20119.	3.3	95
7	Calcium- and myosin-dependent changes in troponin structure during activation of heart muscle. <i>Journal of Physiology</i> , 2009, 587, 155-163.	1.3	89
8	Omecamtiv mercabil and blebbistatin modulate cardiac contractility by perturbing the regulatory state of the myosin filament. <i>Journal of Physiology</i> , 2018, 596, 31-46.	1.3	83
9	A structural and functional perspective into the mechanism of Ca <sup>2+</sup> -sensitizers that target the cardiac troponin complex. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 49, 1031-1041.	0.9	60
10	In Situ Orientations of Protein Domains. <i>Molecular Cell</i> , 2003, 11, 865-874.	4.5	51
11	The molecular basis of the steep force-calcium relation in heart muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 859-865.	0.9	50
12	Distinct contributions of the thin and thick filaments to length-dependent activation in heart muscle. <i>ELife</i> , 2017, 6, .	2.8	48
13	Site-specific phosphorylation of myosin binding protein-C coordinates thin and thick filament activation in cardiac muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15485-15494.	3.3	48
14	Structural changes in troponin in response to Ca <sup>2+</sup> and myosin binding to thin filaments during activation of skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17771-17776.	3.3	40
15	Uncoordinated Transcription and Compromised Muscle Function in the Lmna-Null Mouse Model of Emery-Dreifuss Muscular Dystrophy. <i>PLoS ONE</i> , 2011, 6, e16651.	1.1	37
16	Structural dynamics of troponin during activation of skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4626-4631.	3.3	35
17	X-ray diffraction studies of the contractile mechanism in single muscle fibres. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1883-1893.	1.8	33
18	Actomyosin energy turnover declines while force remains constant during isometric muscle contraction. <i>Journal of Physiology</i> , 2004, 555, 27-43.	1.3	28

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19	Conformation of the Troponin Core Complex in the Thin Filaments of Skeletal Muscle during Relaxation and Active Contraction. <i>Journal of Molecular Biology</i> , 2012, 421, 125-137.	2.0	26
20	Structure-Function Relation of the Myosin Motor in Striated Muscle. <i>Annals of the New York Academy of Sciences</i> , 2005, 1047, 232-247.	1.8	22
21	Regulatory domain of troponin moves dynamically during activation of cardiac muscle. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 75, 181-187.	0.9	22
22	Structural and functional effects of myosin-binding protein-C phosphorylation in heart muscle are not mimicked by serine-to-aspartate substitutions. <i>Journal of Biological Chemistry</i> , 2018, 293, 14270-14275.	1.6	19
23	The structural and functional effects of the familial hypertrophic cardiomyopathy-linked cardiac troponin C mutation, L29Q. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 87, 257-269.	0.9	18
24	Orientation of the Essential Light Chain Region of Myosin in Relaxed, Active, and Rigor Muscle. <i>Biophysical Journal</i> , 2008, 95, 3882-3891.	0.2	17
25	Probing the mechanism of cardiovascular drugs using a covalent levosimendan analog. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 92, 174-184.	0.9	16
26	15-deoxy- $\Delta^{12,14}$ -Prostaglandin J2 inhibits human soluble epoxide hydrolase by a dual orthosteric and allosteric mechanism. <i>Communications Biology</i> , 2019, 2, 188.	2.0	16
27	Cardiac myosin regulatory light chain kinase modulates cardiac contractility by phosphorylating both myosin regulatory light chain and troponin I. <i>Journal of Biological Chemistry</i> , 2020, 295, 4398-4410.	1.6	16
28	Orientation of the N- and C-Terminal Lobes of the Myosin Regulatory Light Chain in Cardiac Muscle. <i>Biophysical Journal</i> , 2015, 108, 304-314.	0.2	15
29	Reversible Covalent Binding to Cardiac Troponin C by the Ca <sup>2+</sup> -Sensitizer Levosimendan. <i>Biochemistry</i> , 2016, 55, 6032-6045.	1.2	14
30	Novel myosin-based therapies for congenital cardiac and skeletal myopathies. <i>Journal of Medical Genetics</i> , 2016, 53, 651-654.	1.5	11
31	Toward Protein Structure In Situ: Comparison of Two Bifunctional Rhodamine Adducts of Troponin C. <i>Biophysical Journal</i> , 2007, 93, 1008-1020.	0.2	10
32	The high-force region of the force-velocity relation in frog skinned muscle fibres. <i>Acta Physiologica Scandinavica</i> , 1993, 148, 243-252.	2.3	9
33	Orientation of the N-Terminal Lobe of the Myosin Regulatory Light Chain in Skeletal Muscle Fibers. <i>Biophysical Journal</i> , 2012, 102, 1418-1426.	0.2	8
34	Reversible Covalent Reaction of Levosimendan with Cardiac Troponin C <i>in Vitro</i> and <i>in Situ</i> . <i>Biochemistry</i> , 2018, 57, 2256-2265.	1.2	8
35	Tryptophan Mutants of Cardiac Troponin C: 3D Structure, Troponin I Affinity, and <i>in Situ</i> Activity. <i>Biochemistry</i> , 2008, 47, 597-606.	1.2	2
36	Interference X-ray Diffraction from Single Muscle Cells Reveals the Molecular Basis of Muscle Braking. , 2011, , 183-189.		0