

Marco Linari

List of Publications by Year in descending order

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61
papers

3,606
citations

136950

32
h-index

144013

57
g-index

62
all docs

62
docs citations

62
times ranked

1660
citing authors

#	ARTICLE	IF	CITATIONS
1	Skeletal Muscle Performance Determined by Modulation of Number of Myosin Motors Rather Than Motor Force or Stroke Size. <i>Cell</i> , 2007, 131, 784-795.	28.9	274
2	Force generation by skeletal muscle is controlled by mechanosensing in myosin filaments. <i>Nature</i> , 2015, 528, 276-279.	27.8	249
3	Rapid regeneration of the actin-myosin power stroke in contracting muscle. <i>Nature</i> , 1992, 355, 638-641.	27.8	185
4	The myosin motor in muscle generates a smaller and slower working stroke at higher load. <i>Nature</i> , 2004, 428, 578-581.	27.8	183
5	The Stiffness of Skeletal Muscle in Isometric Contraction and Rigor: The Fraction of Myosin Heads Bound to Actin. <i>Biophysical Journal</i> , 1998, 74, 2459-2473.	0.5	168
6	Elastic bending and active tilting of myosin heads during muscle contraction. <i>Nature</i> , 1998, 396, 383-387.	27.8	155
7	Stiffness and Fraction of Myosin Motors Responsible for Active Force in Permeabilized Muscle Fibers from Rabbit Psoas. <i>Biophysical Journal</i> , 2007, 92, 2476-2490.	0.5	138
8	Mechanism of force generation by myosin heads in skeletal muscle. <i>Nature</i> , 2002, 415, 659-662.	27.8	133
9	Probing myosin structural conformation in vivo by second-harmonic generation microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7763-7768.	7.1	123
10	Myosin filament activation in the heart is tuned to the mechanical task. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3240-3245.	7.1	112
11	Interference fine structure and sarcomere length dependence of the axial x-ray pattern from active single muscle fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 7226-7231.	7.1	110
12	Temperature dependence of the force-generating process in single fibres from frog skeletal muscle. <i>Journal of Physiology</i> , 2003, 549, 93-106.	2.9	99
13	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.	7.1	95
14	Tension transients during steady lengthening of tetanized muscle fibres of the frog. <i>Journal of Physiology</i> , 1992, 445, 659-711.	2.9	87
15	Energy storage during stretch of active single fibres from frog skeletal muscle. <i>Journal of Physiology</i> , 2003, 548, 461-474.	2.9	79
16	The mechanism of the force response to stretch in human skinned muscle fibres with different myosin isoforms. <i>Journal of Physiology</i> , 2004, 554, 335-352.	2.9	73
17	Effect of Inorganic Phosphate on the Force and Number of Myosin Cross-Bridges During the Isometric Contraction of Permeabilized Muscle Fibers from Rabbit Psoas. <i>Biophysical Journal</i> , 2008, 95, 5798-5808.	0.5	73
18	Ca-Activation and Stretch-Activation in Insect Flight Muscle. <i>Biophysical Journal</i> , 2004, 87, 1101-1111.	0.5	68

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19	A kinetic model that explains the effect of inorganic phosphate on the mechanics and energetics of isometric contraction of fast skeletal muscle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 19-27.	2.6	62
20	The working stroke of the myosin II motor in muscle is not tightly coupled to release of orthophosphate from its active site. <i>Journal of Physiology</i> , 2013, 591, 5187-5205.	2.9	62
21	Sarcomere length dependence of myosin filament structure in skeletal muscle fibres of the frog. <i>Journal of Physiology</i> , 2014, 592, 1119-1137.	2.9	62
22	Nebulin plays a direct role in promoting strong actin-myosin interactions. <i>FASEB Journal</i> , 2009, 23, 4117-4125.	0.5	61
23	Motion of myosin head domains during activation and force development in skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7236-7240.	7.1	59
24	Thick Filament Mechano-Sensing in Skeletal and Cardiac Muscles: A Common Mechanism Able to Adapt the Energetic Cost of the Contraction to the Task. <i>Frontiers in Physiology</i> , 2018, 9, 736.	2.8	58
25	Structural changes in the myosin filament and cross-bridges during active force development in single intact frog muscle fibres: stiffness and X-ray diffraction measurements. <i>Journal of Physiology</i> , 2006, 577, 971-984.	2.9	56
26	Structural and Biochemical Properties Show ARL3-GDP as a Distinct GTP Binding Protein. <i>Structure</i> , 2000, 8, 1239-1245.	3.3	51
27	The contributions of filaments and cross-bridges to sarcomere compliance in skeletal muscle. <i>Journal of Physiology</i> , 2014, 592, 3881-3899.	2.9	50
28	The mechanism of the resistance to stretch of isometrically contracting single muscle fibres. <i>Journal of Physiology</i> , 2010, 588, 495-510.	2.9	42
29	Size and speed of the working stroke of cardiac myosin in situ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3675-3680.	7.1	41
30	Low temperature traps myosin motors of mammalian muscle in a refractory state that prevents activation. <i>Journal of General Physiology</i> , 2019, 151, 1272-1286.	1.9	40
31	Changes in conformation of myosin heads during the development of isometric contraction and rapid shortening in single frog muscle fibres. <i>Journal of Physiology</i> , 1999, 514, 305-312.	2.9	36
32	The Effect of Myofilament Compliance on Kinetics of Force Generation by Myosin Motors in Muscle. <i>Biophysical Journal</i> , 2009, 96, 583-592.	0.5	36
33	Force and number of myosin motors during muscle shortening and the coupling with the release of the ATP hydrolysis products. <i>Journal of Physiology</i> , 2015, 593, 3313-3332.	2.9	35
34	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.	4.0	33
35	The structural basis of the increase in isometric force production with temperature in frog skeletal muscle. <i>Journal of Physiology</i> , 2005, 567, 459-469.	2.9	33
36	Low-force transitions in single titin molecules reflect a memory of contractile history. <i>Journal of Cell Science</i> , 2014, 127, 858-70.	2.0	33

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37	New techniques in linear and non-linear laser optics in muscle research. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 27, 469-479.	2.0	31
38	Inotropic interventions do not change the resting state of myosin motors during cardiac diastole. <i>Journal of General Physiology</i> , 2019, 151, 53-65.	1.9	31
39	Structural changes in myosin motors and filaments during relaxation of skeletal muscle. <i>Journal of Physiology</i> , 2009, 587, 4509-4521.	2.9	28
40	The Conformation of Myosin Head Domains in Rigor Muscle Determined by X-Ray Interference. <i>Biophysical Journal</i> , 2003, 85, 1098-1110.	0.5	26
41	Myopalladin promotes muscle growth through modulation of the serum response factor pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 169-194.	7.3	26
42	The myofilament elasticity and its effect on kinetics of force generation by the myosin motor. <i>Archives of Biochemistry and Biophysics</i> , 2014, 552-553, 108-116.	3.0	23
43	Structure-Function Relation of the Myosin Motor in Striated Muscle. <i>Annals of the New York Academy of Sciences</i> , 2005, 1047, 232-247.	3.8	22
44	Effects of myosin heavy chain (MHC) plasticity induced by HMGCoA reductase inhibition on skeletal muscle functions. <i>FASEB Journal</i> , 2011, 25, 4037-4047.	0.5	21
45	Dependence of thick filament structure in relaxed mammalian skeletal muscle on temperature and interfilament spacing. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	21
46	The effect of hypertonicity on force generation in tetanized single fibres from frog skeletal muscle.. <i>Journal of Physiology</i> , 1994, 476, 531-546.	2.9	19
47	The force and stiffness of myosin motors in the isometric twitch of a cardiac trabecula and the effect of the extracellular calcium concentration. <i>Journal of Physiology</i> , 2018, 596, 2581-2596.	2.9	17
48	Mechanics of myosin function in white muscle fibres of the dogfish, <i>Scyliorhinus canicula</i> . <i>Journal of Physiology</i> , 2012, 590, 1973-1988.	2.9	15
49	Orthophosphate increases the efficiency of slow muscle-myosin isoform in the presence of omecamtiv mecarbil. <i>Nature Communications</i> , 2020, 11, 3405.	12.8	14
50	Mechanical and energy characteristics during shortening in isolated type-1 muscle fibres from <i>Xenopus laevis</i> studied at maximal and submaximal activation. <i>Pflugers Archiv European Journal of Physiology</i> , 1997, 435, 145-150.	2.8	11
51	Thick Filament Length Changes in Muscle Have Both Elastic and Structural Components. <i>Biophysical Journal</i> , 2019, 116, 983-984.	0.5	11
52	Straightening Out the Elasticity of Myosin Cross-Bridges. <i>Biophysical Journal</i> , 2020, 118, 994-1002.	0.5	9
53	Cross-bridge kinetics studied with staircase shortening in single fibres from frog skeletal muscle. <i>Journal of Muscle Research and Cell Motility</i> , 1997, 18, 91-101.	2.0	8
54	Orthovanadate and Orthophosphate Inhibit Muscle Force via Two Different Pathways of the Myosin ATPase Cycle. <i>Biophysical Journal</i> , 2011, 100, 665-674.	0.5	7

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55	Muscle Thixotropy: More than Just Cross-Bridges? Response to Comment by Campbell and Lakie. <i>Biophysical Journal</i> , 2008, 94, 329-330.	0.5	5
56	Myosin motors that cannot bind actin leave their folded OFF state on activation of skeletal muscle. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	4
57	Myosin Head Movements during Isometric Contraction Studied by X-Ray Diffraction of Single Frog Muscle Fibres. <i>Advances in Experimental Medicine and Biology</i> , 1998, 453, 265-270.	1.6	2
58	Functional imaging of muscle cells by second harmonic generation. , 2006, 6089, 238.		1
59	Sarcomere-Length Dependence of the Low Angle X-Ray Pattern from Skeletal Muscle Fibers at Rest and during Isometric Contraction. <i>Biophysical Journal</i> , 2012, 102, 147a-148a.	0.5	0
60	The Off State of the Thick Filament of Cardiac Muscle is Not Affected by Inotropic Interventions Like the Increase in Diastolic Sarcomere Length or the Addition of a Beta-Adrenergic Effector. <i>Biophysical Journal</i> , 2018, 114, 314a.	0.5	0
61	In Situ Characterization of the Working Stroke of the Slow and Fast Isoforms of Muscle Myosin. <i>Biophysical Journal</i> , 2020, 118, 120a.	0.5	0