

Dilson E Rassier

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

82
papers

1,693
citations

25
h-index

36
g-index

87
ext. papers

2,005
ext. citations

4.7
avg, IF

5.13
L-index

#	Paper	IF	Citations
82	Millisecond Conformational Dynamics of Skeletal Myosin II Power Stroke Studied by High-Speed Atomic Force Microscopy. <i>ACS Nano</i> , 2021 , 15, 2229-2239	16.7	2
81	Twenty-one days of low-intensity eccentric training improve morphological characteristics and function of soleus muscles of mdx mice. <i>Scientific Reports</i> , 2021 , 11, 3579	4.9	1
80	KBTBD13 is an actin-binding protein that modulates muscle kinetics. <i>Journal of Clinical Investigation</i> , 2020 , 130, 754-767	15.9	15
79	Extraction of Thick Filaments in Individual Sarcomeres Affects Force Production by Single Myofibrils. <i>Biophysical Journal</i> , 2020 , 118, 1921-1929	2.9	4
78	Sarcomere Length Nonuniformity and Force Regulation in Myofibrils and Sarcomeres. <i>Biophysical Journal</i> , 2020 , 119, 2372-2377	2.9	8
77	Sarcomere length non-uniformities dictate force production along the descending limb of the force-length relation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20202133	4.4	3
76	Force enhancement after stretch of isolated myofibrils is increased by sarcomere length non-uniformities. <i>Scientific Reports</i> , 2020 , 10, 21590	4.9	1
75	The load dependence and the force-velocity relation in intact myosin filaments from skeletal and smooth muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 318, C103-C110	5.4	5
74	Force generated by myosin cross-bridges is reduced in myofibrils exposed to ROS/RNS. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 317, C1304-C1312	5.4	5
73	Skeletal MyBP-C isoforms tune the molecular contractility of divergent skeletal muscle systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21882-21892	11.5	15
72	Nonlinear Actomyosin Elasticity in Muscle?. <i>Biophysical Journal</i> , 2019 , 116, 330-346	2.9	5
71	Mechanical ventilation causes diaphragm dysfunction in newborn lambs. <i>Critical Care</i> , 2019 , 23, 123	10.8	6
70	The effects of fatigue and oxidation on contractile function of intact muscle fibers and myofibrils isolated from the mouse diaphragm. <i>Scientific Reports</i> , 2019 , 9, 4422	4.9	3
69	Protein arginylation of cytoskeletal proteins in the muscle: modifications modifying function. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 316, C668-C677	5.4	5
68	Oxidative hotspots on actin promote skeletal muscle weakness in rheumatoid arthritis. <i>JCI Insight</i> , 2019 , 5,	9.9	10
67	High-speed AFM reveals subsecond dynamics of cardiac thin filaments upon Ca activation and heavy meromyosin binding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16384-16393	11.5	13
66	Cleavage of loops 1 and 2 in skeletal muscle heavy meromyosin (HMM) leads to a decreased function. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 661, 168-177	4.1	3

65	Dysfunctional sarcomere contractility contributes to muscle weakness in ACTA1-related nemaline myopathy (NEM3). <i>Annals of Neurology</i> , 2018 , 83, 269-282	9.4	10
64	Blebbistatin Effects Expose Hidden Secrets in the Force-Generating Cycle of Actin and Myosin. <i>Biophysical Journal</i> , 2018 , 115, 386-397	2.9	21
63	Do Actomyosin Single-Molecule Mechanics Data Predict Mechanics of Contracting Muscle?. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	19
62	Hypertrophic cardiomyopathy R403Q mutation in rabbit β myosin reduces contractile function at the molecular and myofibrillar levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11238-11243	11.5	16
61	Sarcomere mechanics in striated muscles: from molecules to sarcomeres to cells. <i>American Journal of Physiology - Cell Physiology</i> , 2017 , 313, C134-C145	5.4	36
60	Residual force enhancement is regulated by titin in skeletal and cardiac myofibrils. <i>Journal of Physiology</i> , 2017 , 595, 2085-2098	3.9	24
59	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
58	Microfluidic perfusion shows intersarcomere dynamics within single skeletal muscle myofibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8794-8799	11.5	10
57	Sarcomere Stiffness during Stretching and Shortening of Rigor Skeletal Myofibrils. <i>Biophysical Journal</i> , 2017 , 113, 2768-2776	2.9	5
56	Length-dependent Ca ²⁺ activation in skeletal muscle fibers from mammals. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C201-11	5.4	2
55	Reply to "Letter to the editor: Comments on Cornachione et al. (2016): "The increase in non-cross-bridge forces after stretch of activated striated muscle is related to titin isoforms". <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C160-1	5.4	2
54	Reply to "Letter to the editor: Titin-actin interaction: the report of its death was an exaggeration". <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C623	5.4	2
53	Reactive oxygen/nitrogen species and contractile function in skeletal muscle during fatigue and recovery. <i>Journal of Physiology</i> , 2016 , 594, 5149-60	3.9	71
52	Reduced passive force in skeletal muscles lacking protein arginylation. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C127-35	5.4	15
51	Reduction in single muscle fiber rate of force development with aging is not attenuated in world class older masters athletes. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C318-27	5.4	32
50	Chapter 7 The Static Tension in Skeletal Muscles and Its Regulation by Titin 2016 , 193-208		
49	Posttranslational Arginylation Regulates Striated Muscle Function. <i>Exercise and Sport Sciences Reviews</i> , 2016 , 44, 98-103	6.7	5
48	Prolonged controlled mechanical ventilation in humans triggers myofibrillar contractile dysfunction and myofilament protein loss in the diaphragm. <i>Thorax</i> , 2016 , 71, 436-45	7.3	36

47	Two Kinases to Soften the Heart. <i>Biophysical Journal</i> , 2016 , 110, 289-291	2.9	
46	The increase in non-cross-bridge forces after stretch of activated striated muscle is related to titin isoforms. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 310, C19-26	5.4	44
45	MgADP activation contributes to force enhancement during fast stretch of isolated skeletal myofibrils. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 1129-34	3.4	8
44	Non-crossbridge forces in activated striated muscles: a titin dependent mechanism of regulation?. <i>Journal of Muscle Research and Cell Motility</i> , 2015 , 36, 37-45	3.5	26
43	Masticatory muscles of mouse do not undergo atrophy in space. <i>FASEB Journal</i> , 2015 , 29, 2769-79	0.9	16
42	Residual force depression in single sarcomeres is abolished by MgADP-induced activation. <i>Scientific Reports</i> , 2015 , 5, 10555	4.9	4
41	Thixotropy and rheopexy of muscle fibers probed using sinusoidal oscillations. <i>PLoS ONE</i> , 2015 , 10, e0123726	3.7	13
40	Poorly understood aspects of striated muscle contraction. <i>BioMed Research International</i> , 2015 , 2015, 245154	3	34
39	Nitrosative modifications of the Ca ²⁺ release complex and actin underlie arthritis-induced muscle weakness. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, 1907-14	2.4	34
38	Arginylation of myosin heavy chain regulates skeletal muscle strength. <i>Cell Reports</i> , 2014 , 8, 470-6	10.6	25
37	Force produced after stretch in sarcomeres and half-sarcomeres isolated from skeletal muscles. <i>Scientific Reports</i> , 2013 , 3, 2320	4.9	25
36	Forces measured with micro-fabricated cantilevers during actomyosin interactions produced by filaments containing different myosin isoforms and loop 1 structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2710-2719	4	9
35	Contractility of myofibrils from the heart and diaphragm muscles measured with atomic force cantilevers: effects of heart-specific deletion of arginyl-tRNA-protein transferase. <i>International Journal of Cardiology</i> , 2013 , 168, 3564-71	3.2	16
34	The effects of Ca ²⁺ and MgADP on force development during and after muscle length changes. <i>PLoS ONE</i> , 2013 , 8, e68866	3.7	14
33	A non-cross-bridge, static tension is present in permeabilized skeletal muscle fibers after active force inhibition or actin extraction. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C566-74	5.4	32
32	Residual force enhancement in skeletal muscles: one sarcomere after the other. <i>Journal of Muscle Research and Cell Motility</i> , 2012 , 33, 155-65	3.5	24
31	Arginylation regulates myofibrils to maintain heart function and prevent dilated cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 333-41	5.8	38
30	Pre-power-stroke cross-bridges contribute to force transients during imposed shortening in isolated muscle fibers. <i>PLoS ONE</i> , 2012 , 7, e29356	3.7	12

29	Force produced by isolated sarcomeres and half-sarcomeres after an imposed stretch. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C240-8	5.4	39
28	The mechanisms of the residual force enhancement after stretch of skeletal muscle: non-uniformity in half-sarcomeres and stiffness of titin. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 2705-13	4.4	40
27	History-dependent properties of skeletal muscle myofibrils contracting along the ascending limb of the force-length relationship. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010 , 277, 475-84	4.4	36
26	Effects of blebbistatin and Ca ²⁺ concentration on force produced during stretch of skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 299, C1127-35	5.4	21
25	A technique for simultaneous measurement of force and overlap between single muscle filaments of myosin and actin. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 403, 351-6	3.4	5
24	Striated muscles: from molecules to cells. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 682, 1-6	3.6	1
23	Stretch and shortening of skeletal muscles activated along the ascending limb of the force-length relation. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 682, 175-89	3.6	5
22	Contractile characteristics of sarcomeres arranged in series or mechanically isolated from myofibrils. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 682, 123-40	3.6	12
21	The mechanical behavior of individual sarcomeres of myofibrils isolated from rabbit psoas muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C1211-9	5.4	32
20	Sarcomere dynamics in skeletal muscle myofibrils during isometric contractions. <i>Journal of Biomechanics</i> , 2009 , 42, 2808-12	2.9	23
19	Molecular basis of force development by skeletal muscles during and after stretch. <i>MCB Molecular and Cellular Biomechanics</i> , 2009 , 6, 229-41	1.2	1
18	Pre-power stroke cross bridges contribute to force during stretch of skeletal muscle myofibrils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008 , 275, 2577-86	4.4	47
17	Staircase but not posttetanic potentiation in rat muscle after spinal cord hemisection. <i>Muscle and Nerve</i> , 2008 , 38, 1455-1465	3.4	11
16	Modulation of passive force in single skeletal muscle fibres. <i>Biology Letters</i> , 2005 , 1, 342-5	3.6	28
15	Relationship between force and stiffness in muscle fibers after stretch. <i>Journal of Applied Physiology</i> , 2005 , 99, 1769-75	3.7	29
14	Force enhancement and relaxation rates after stretch of activated muscle fibres. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005 , 272, 475-80	4.4	16
13	Active force inhibition and stretch-induced force enhancement in frog muscle treated with BDM. <i>Journal of Applied Physiology</i> , 2004 , 97, 1395-400	3.7	53
12	Force enhancement in single skeletal muscle fibres on the ascending limb of the force-length relationship. <i>Journal of Experimental Biology</i> , 2004 , 207, 2787-91	3	67

11	Effects of shortening on stretch-induced force enhancement in single skeletal muscle fibers. <i>Journal of Biomechanics</i> , 2004 , 37, 1305-12	2.9	33
10	Considerations on the history dependence of muscle contraction. <i>Journal of Applied Physiology</i> , 2004 , 96, 419-27	3.7	65
9	Stretch-induced, steady-state force enhancement in single skeletal muscle fibers exceeds the isometric force at optimum fiber length. <i>Journal of Biomechanics</i> , 2003 , 36, 1309-16	2.9	80
8	Dynamics of individual sarcomeres during and after stretch in activated single myofibrils. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 1735-40	4.4	74
7	Stretch-induced force enhancement and stability of skeletal muscle myofibrils. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 538, 501-15; discussion 515	3.6	34
6	Effects of pH on the length-dependent twitch potentiation in skeletal muscle. <i>Journal of Applied Physiology</i> , 2002 , 92, 1293-9	3.7	14
5	Sarcomere length-dependence of activity-dependent twitch potentiation in mouse skeletal muscle. <i>BMC Physiology</i> , 2002 , 2, 19	0	19
4	Length-dependent twitch contractile characteristics of skeletal muscle. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002 , 80, 993-1000	2.4	24
3	Force enhancement following an active stretch in skeletal muscle. <i>Journal of Electromyography and Kinesiology</i> , 2002 , 12, 471-7	2.5	20
2	The effects of length on fatigue and twitch potentiation in human skeletal muscle. <i>Clinical Physiology</i> , 2000 , 20, 474-82		37
1	Attenuation of myosin light chain phosphorylation and posttetanic potentiation in atrophied skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 1997 , 434, 848-51	4.6	23