

Kenneth S Campbell

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

3,808
citations

159585

30
h-index

138484

58
g-index

99
all docs

99
docs citations

99
times ranked

4504
citing authors

#	ARTICLE	IF	CITATIONS
1	Titin-truncating mutations associated with dilated cardiomyopathy alter length-dependent activation and its modulation via phosphorylation. <i>Cardiovascular Research</i> , 2022, 118, 241-253.	3.8	16
2	FiberSim: A flexible open-source model of myofilament-level contraction. <i>Biophysical Journal</i> , 2022, 121, 175-182.	0.5	13
3	Functional and structural differences between skinned and intact muscle preparations. <i>Journal of General Physiology</i> , 2022, 154, .	1.9	4
4	Reproducibility of Systolic Strain in Mice Using Cardiac Magnetic Resonance Feature Tracking of Black-Blood Cine Images. <i>Cardiovascular Engineering and Technology</i> , 2022, , 1.	1.6	0
5	An expanding explanation for the ascending limb of muscle's active force-length relationship. <i>Biophysical Journal</i> , 2022, , .	0.5	0
6	Prior Freezing Has Minimal Impact on the Contractile Properties of Permeabilized Human Myocardium. <i>Journal of the American Heart Association</i> , 2022, 11, e023010.	3.7	2
7	Chaperone-mediated autophagy protects cardiomyocytes against hypoxic-cell death. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C1555-C1575.	4.6	15
8	<sc>SUMOylation</sc> does not affect cardiac troponin I stability but alters indirectly the development of force in response to Ca ²⁺ . <i>FEBS Journal</i> , 2022, 289, 6267-6285.	4.7	2
9	Integrated multi-omic characterization of congenital heart disease. <i>Nature</i> , 2022, 608, 181-191.	27.8	37
10	Fast-relaxing cardiomyocytes exert a dominant role in the relaxation behavior of heterogeneous myocardium. <i>Archives of Biochemistry and Biophysics</i> , 2021, 697, 108711.	3.0	4
11	Impact of regulatory light chain mutation K104E on the ATPase and motor properties of cardiac myosin. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	8
12	Hypertrophic cardiomyopathy β -cardiac myosin mutation (P710R) leads to hypercontractility by disrupting super relaxed state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	43
13	Multiscale simulations of left ventricular growth and remodeling. <i>Biophysical Reviews</i> , 2021, 13, 729-746.	3.2	13
14	Renal Angiotensinogen Is Predominantly Liver Derived in Nonhuman Primates. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2851-2853.	2.4	10
15	Mathematical modeling of myosin, muscle contraction, and movement. <i>Archives of Biochemistry and Biophysics</i> , 2021, 711, 108979.	3.0	0
16	Diabetic microcirculatory disturbances and pathologic erythropoiesis are provoked by deposition of amyloid-forming amylin in red blood cells and capillaries. <i>Kidney International</i> , 2020, 97, 143-155.	5.2	31
17	Multiscale Modeling of Cardiovascular Function Predicts That the End-Systolic Pressure Volume Relationship Can Be Targeted via Multiple Therapeutic Strategies. <i>Frontiers in Physiology</i> , 2020, 11, 1043.	2.8	10
18	Heart Failure in Humans Reduces Contractile Force in Myocardium From Both Ventricles. <i>JACC Basic To Translational Science</i> , 2020, 5, 786-798.	4.1	20

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19	Effects of mavacamten on Ca ²⁺ sensitivity of contraction as sarcomere length varied in human myocardium. <i>British Journal of Pharmacology</i> , 2020, 177, 5609-5621.	5.4	36
20	Regulation of Myofilament Contractile Function in Human Donor and Failing Hearts. <i>Frontiers in Physiology</i> , 2020, 11, 468.	2.8	16
21	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.	3.4	16
22	Force-dependent recruitment from myosin OFF-state increases end-systolic pressure-volume relationship in left ventricle. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 2683-2692.	2.8	9
23	Diverse and complex muscle spindle afferent firing properties emerge from multiscale muscle mechanics. <i>ELife</i> , 2020, 9, .	6.0	37
24	Closing the therapeutic loop. <i>Archives of Biochemistry and Biophysics</i> , 2019, 663, 129-131.	3.0	11
25	Muscle thixotropy—where are we now?. <i>Journal of Applied Physiology</i> , 2019, 126, 1790-1799.	2.5	32
26	The Heart by Numbers. <i>Biophysical Journal</i> , 2019, 117, E1-E3.	0.5	0
27	Differential Effects of Isoproterenol on Regional Myocardial Mechanics in Rat Using Three-Dimensional Cine DENSE Cardiovascular Magnetic Resonance. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	1
28	A short history of the development of mathematical models of cardiac mechanics. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 127, 11-19.	1.9	44
29	MyoVision: software for automated high-content analysis of skeletal muscle immunohistochemistry. <i>Journal of Applied Physiology</i> , 2018, 124, 40-51.	2.5	161
30	Diabetes with heart failure increases methylglyoxal modifications in the sarcomere, which inhibit function. <i>JCI Insight</i> , 2018, 3, .	5.0	50
31	Evaluation of a Novel Finite Element Model of Active Contraction in the Heart. <i>Frontiers in Physiology</i> , 2018, 9, 425.	2.8	13
32	Force-Dependent Recruitment from the Myosin Off State Contributes to Length-Dependent Activation. <i>Biophysical Journal</i> , 2018, 115, 543-553.	0.5	54
33	Myocardial relaxation is accelerated by fast stretch, not reduced afterload. <i>Journal of Molecular and Cellular Cardiology</i> , 2017, 103, 65-73.	1.9	28
34	Omecamtiv Mecarbil Enhances the Duty Ratio of Human β^2 -Cardiac Myosin Resulting in Increased Calcium Sensitivity and Slowed Force Development in Cardiac Muscle. <i>Journal of Biological Chemistry</i> , 2017, 292, 3768-3778.	3.4	82
35	Super-relaxation helps muscles work more efficiently. <i>Journal of Physiology</i> , 2017, 595, 1007-1008.	2.9	4
36	Regional quantification of myocardial mechanics in rat using 3D cine DENSE cardiovascular magnetic resonance. <i>NMR in Biomedicine</i> , 2017, 30, e3733.	2.8	8

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37	The effects of pH and Pi on tension and Ca ²⁺ sensitivity of ventricular myofilaments from the anoxia-tolerant painted turtle. <i>Journal of Experimental Biology</i> , 2017, 220, 4234-4241.	1.7	8
38	Abnormal contractility in human heart myofibrils from patients with dilated cardiomyopathy due to mutations in TTN and contractile protein genes. <i>Scientific Reports</i> , 2017, 7, 14829.	3.3	40
39	No Difference in Myosin Kinetics and Spatial Distribution of the Lever Arm in the Left and Right Ventricles of Human Hearts. <i>Frontiers in Physiology</i> , 2017, 8, 732.	2.8	2
40	Differential effects of isoproterenol and omecamtiv mecarbil on the contractile properties of unloaded myocytes. <i>FASEB Journal</i> , 2017, 31, .	0.5	0
41	Computational Investigation of Transmural Differences in Left Ventricular Contractility. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	1.3	10
42	Compliance Accelerates Relaxation in Muscle by Allowing Myosin Heads to Move Relative to Actin. <i>Biophysical Journal</i> , 2016, 110, 661-668.	0.5	23
43	Modulating Beta-Cardiac Myosin Function at the Molecular and Tissue Levels. <i>Frontiers in Physiology</i> , 2016, 7, 659.	2.8	16
44	A Protocol for Collecting Human Cardiac Tissue for Research. <i>The VAD Journal: the Journal of Mechanical Assisted Circulation and Heart Failure</i> , 2016, 2, .	2.0	19
45	The Effect of Intracellular pH on Myocardial Calcium Sensitivity in the Anoxia-Tolerant Painted Turtle. <i>FASEB Journal</i> , 2016, 30, 760.22.	0.5	0
46	Myocardial Strain Rate Modulates the Speed of Relaxation in Dynamically Loaded Twitch Contractions. <i>Biophysical Journal</i> , 2015, 108, 200a.	0.5	1
47	Myocyte contractility can be maintained by storing cells with the myosin ATPase inhibitor 2,3 butanedione monoxime. <i>Physiological Reports</i> , 2015, 3, e12445.	1.7	7
48	Cell- and molecular-level mechanisms contributing to diastolic dysfunction in HFpEF. <i>Journal of Applied Physiology</i> , 2015, 119, 1228-1232.	2.5	15
49	Numerical Evaluation of Myofiber Orientation and Transmural Contractile Strength on Left Ventricular Function. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 044502.	1.3	21
50	Attenuated sarcomere lengthening of the aged murine left ventricle observed using two-photon fluorescence microscopy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H918-H925.	3.2	19
51	Myocardial hypertrophy reduces transmural variation in mitochondrial function. <i>Frontiers in Physiology</i> , 2014, 5, 178.	2.8	3
52	Increased myocardial short-range forces in a rodent model of diabetes reflect elevated content of \hat{I}^2 myosin heavy chain. <i>Archives of Biochemistry and Biophysics</i> , 2014, 552-553, 92-99.	3.0	7
53	Transmural heterogeneity of cellular level power output is reduced in human heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 72, 1-8.	1.9	49
54	Dynamic coupling of regulated binding sites and cycling myosin heads in striated muscle. <i>Journal of General Physiology</i> , 2014, 143, 387-399.	1.9	34

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55	End Systolic Strain Rate, not Afterload, Controls Myocardial Relaxation. <i>Biophysical Journal</i> , 2014, 106, 646a.	0.5	1
56	Temperature and transmural region influence functional measurements in unloaded left ventricular cardiomyocytes. <i>Physiological Reports</i> , 2013, 1, e00158.	1.7	19
57	Altered ventricular torsion and transmural patterns of myocyte relaxation precede heart failure in aging F344 rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H676-H686.	3.2	37
58	Effect of muscle length on cross-bridge kinetics in intact cardiac trabeculae at body temperature. <i>Journal of General Physiology</i> , 2013, 141, 133-139.	1.9	38
59	Genome-wide expression analysis and EMX2 gene expression in embryonic myoblasts committed to diverse skeletal muscle fiber type fates. <i>Developmental Dynamics</i> , 2013, 242, 1001-1020.	1.8	8
60	Development of dilated cardiomyopathy in <i>Bmal1</i> -deficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H475-H485.	3.2	127
61	Satellite cell depletion does not inhibit adult skeletal muscle regrowth following unloading-induced atrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C854-C861.	4.6	122
62	High-Risk Long QT Syndrome Mutations in the Kv7.1 (KCNQ1) Pore Disrupt the Molecular Basis for Rapid $K^{sup}+$ Permeation. <i>Biochemistry</i> , 2012, 51, 9076-9085.	2.5	17
63	Sphingomyelinase depresses force and calcium sensitivity of the contractile apparatus in mouse diaphragm muscle fibers. <i>Journal of Applied Physiology</i> , 2012, 112, 1538-1545.	2.5	27
64	Impact of myocyte strain on cardiac myofilament activation. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 462, 3-14.	2.8	38
65	Mechanisms of residual force enhancement in skeletal muscle: insights from experiments and mathematical models. <i>Biophysical Reviews</i> , 2011, 3, 199-207.	3.2	44
66	Effective fiber hypertrophy in satellite cell-depleted skeletal muscle. <i>Development (Cambridge)</i> , 2011, 138, 3657-3666.	2.5	531
67	Effectiveness of Sulfur-Containing Antioxidants in Delaying Skeletal Muscle Fatigue. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1025-1031.	0.4	13
68	A Mathematical Model of Muscle Containing Heterogeneous Half-Sarcomeres Exhibits Residual Force Enhancement. <i>PLoS Computational Biology</i> , 2011, 7, e1002156.	3.2	45
69	CLOCK and BMAL1 regulate <i>MyoD</i> and are necessary for maintenance of skeletal muscle phenotype and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19090-19095.	7.1	299
70	Distorting the sarcomere. <i>Journal of General Physiology</i> , 2010, 136, 155-157.	1.9	0
71	Coupling of Adjacent Tropomyosins Enhances Cross-Bridge-Mediated Cooperative Activation in a Markov Model of the Cardiac Thin Filament. <i>Biophysical Journal</i> , 2010, 98, 2254-2264.	0.5	79
72	Short-Range Mechanical Properties of Skeletal and Cardiac Muscles. <i>Advances in Experimental Medicine and Biology</i> , 2010, 682, 223-246.	1.6	15

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73	Distinct growth hormone receptor signaling modes regulate skeletal muscle development and insulin sensitivity in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 4007-4020.	8.2	171
74	Interactions between Connected Half-Sarcomeres Produce Emergent Mechanical Behavior in a Mathematical Model of Muscle. <i>PLoS Computational Biology</i> , 2009, 5, e1000560.	3.2	75
75	GelBandFitter " A computer program for analysis of closely spaced electrophoretic and immunoblotted bands. <i>Electrophoresis</i> , 2009, 30, 848-851.	2.4	29
76	Myocardial short-range force responses increase with age in F344 rats. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 39-46.	1.9	14
77	Short-range Mechanical Properties Simulated With A Mathematical Model Incorporating Multiple Half-sarcomeres. <i>Biophysical Journal</i> , 2009, 96, 615a.	0.5	1
78	Response to Bianco et al.: Interaction Forces between F-actin and Titin PEVK Domain Measured with Optical Tweezers. <i>Biophysical Journal</i> , 2008, 94, 327-328.	0.5	5
79	TNF- α acts via TNFR1 and muscle-derived oxidants to depress myofibrillar force in murine skeletal muscle. <i>Journal of Applied Physiology</i> , 2008, 104, 694-699.	2.5	118
80	The rate of tension recovery in cardiac muscle correlates with the relative residual tension prevailing after restretch. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H2020-H2022.	3.2	11
81	Identification of the circadian transcriptome in adult mouse skeletal muscle. <i>Physiological Genomics</i> , 2007, 31, 86-95.	2.3	300
82	Tension Recovery in Permeabilized Rat Soleus Muscle Fibers after Rapid Shortening and Restretch. <i>Biophysical Journal</i> , 2006, 90, 1288-1294.	0.5	21
83	Filament Compliance Effects Can Explain Tension Overshoots during Force Development. <i>Biophysical Journal</i> , 2006, 91, 4102-4109.	0.5	46
84	Developmental changes in rat cardiac titin/connectin: transitions in normal animals and in mutants with a delayed pattern of isoform transition. <i>Journal of Muscle Research and Cell Motility</i> , 2006, 26, 325-332.	2.0	56
85	Antioxidants attenuate TNF- α induced contractile dysfunction: alterations in myofibrillar function. <i>FASEB Journal</i> , 2006, 20, A809.	0.5	0
86	Titin isoform changes in rat myocardium during development. <i>Mechanisms of Development</i> , 2004, 121, 1301-1312.	1.7	96
87	Cycling Cross-Bridges Increase Myocardial Stiffness at Submaximal Levels of Ca ²⁺ Activation. <i>Biophysical Journal</i> , 2003, 84, 3807-3815.	0.5	32
88	SLControl: PC-based data acquisition and analysis for muscle mechanics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2857-H2864.	3.2	51
89	History-Dependent Mechanical Properties of Permeabilized Rat Soleus Muscle Fibers. <i>Biophysical Journal</i> , 2002, 82, 929-943.	0.5	91
90	Cooperative Mechanisms in the Activation Dependence of the Rate of Force Development in Rabbit Skinned Skeletal Muscle Fibers. <i>Journal of General Physiology</i> , 2001, 117, 133-148.	1.9	60

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91	A thixotropic effect in contracting rabbit psoas muscle: prior movement reduces the initial tension response to stretch. <i>Journal of Physiology</i> , 2000, 525, 531-548.	2.9	50
92	A Protocol for Collecting Human Cardiac Tissue for Research. <i>The VAD Journal: the Journal of Mechanical Assisted Circulation and Heart Failure</i> , 0, , .	2.0	8