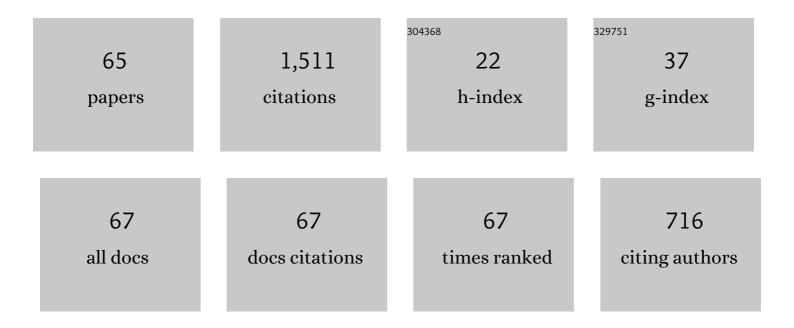
List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Phosphate has dual roles in cross-bridge kinetics in rabbit psoas single myofibrils. Journal of General<br>Physiology, 2021, 153, .  | 0.9 | 4         |
| 2  | Mechanisms of Frank-Starling law of the heart and stretch activation in striated muscles may have a common molecular origin. Journal of Muscle Research and Cell Motility, 2021, 42, 355-366.  | 0.9 | 11        |
| 3  | Hypertrophic cardiomyopathy associated E22K mutation in myosin regulatory light chain decreases<br>calciumâ€activated tension and stiffness and reduces myofilament Ca <sup>2+</sup> sensitivity. FEBS<br>Journal, 2021, 288, 4596-4613. | 2.2 | 5         |
| 4  | Functional significance of HCM mutants of tropomyosin, V95A and D175N, studied with <i>in<br/>vitro</i> motility assays. Biophysics and Physicobiology, 2019, 16, 28-40.   | 0.5 | 6         |
| 5  | Structure and Function of Muscle Cells. , 2018, , 33-64.   |     | 1         |
| 6  | Nebulin increases thin filament stiffness and force per cross-bridge in slow-twitch soleus muscle fibers. Journal of General Physiology, 2018, 150, 1510-1522.   | 0.9 | 18        |
| 7  | Mathematics Needed to Solve Problems of Contraction. , 2018, , 65-76.  |     | 4         |
| 8  | Estimation of actomyosin active force maintained by tropomyosin and troponin complex under vertical forces in the in vitro motility assay system. PLoS ONE, 2018, 13, e0192558.  | 1.1 | 6         |
| 9  | Computer Interfacing of Experimental Apparatus. , 2018, , 77-96.   |     | 0         |
| 10 | How to Characterize Chemical Reactions Occurring in Muscle Fibers?. , 2018, , 23-31.   |     | 0         |
| 11 | Reaction Processes (Chemical Kinetics) and Their Application to Muscle Biology. , 2018, , 9-22.  |     | 0         |
| 12 | Myosin Rod Hypophosphorylation and CB Kinetics in Papillary Muscles from a TnC-A8V KI Mouse Model.<br>Biophysical Journal, 2017, 112, 1726-1736.   | 0.2 | 10        |
| 13 | Cardiac contractility, motor function, and crossâ€bridge kinetics in N47K―RLC mutant mice. FEBS<br>Journal, 2017, 284, 1897-1913.  | 2.2 | 5         |
| 14 | Development of apical hypertrophic cardiomyopathy with age in a transgenic mouse model carrying the cardiac actin E99K mutation. Journal of Muscle Research and Cell Motility, 2017, 38, 421-435.  | 0.9 | 4         |
| 15 | Comparison of elementary steps of the cross-bridge cycle in rat papillary muscle fibers expressing α-<br>and β-myosin heavy chain with sinusoidal analysis. Journal of Muscle Research and Cell Motility, 2016,<br>37, 203-214.          | 0.9 | 10        |
| 16 | Editorial on EMC 2014 special issue. Journal of Muscle Research and Cell Motility, 2015, 36, 1-3.  | 0.9 | 1         |
| 17 | High ionic strength depresses muscle contractility by decreasing both force per cross-bridge and the number of strongly attached cross-bridges. Journal of Muscle Research and Cell Motility, 2015, 36, 227-241.                         | 0.9 | 12        |
| 18 | The immediate effect of HCM causing actin mutants E99K and A230V on actin–Tm–myosin interaction in thin-filament reconstituted myocardium. Journal of Molecular and Cellular Cardiology, 2015, 79, 123-132.                              | 0.9 | 17        |

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|----|--|-----|-----------|
| 19 | Using baculovirus/insect cell expressed recombinant actin to study the molecular pathogenesis of HCM caused by actin mutation A331P. Journal of Molecular and Cellular Cardiology, 2014, 74, 64-75.  | 0.9 | 17        |
| 20 | Phosphorylation of cMyBP-C Affects Contractile Mechanisms in a Site-specific Manner. Biophysical Journal, 2014, 106, 1112-1122.  | 0.2 | 21        |
| 21 | Characterizations of myosin essential light chain'sÂN-terminal truncation mutant Δ43 in transgenic<br>mouse papillary muscles by using tension transients in response to sinusoidal length alterations.<br>Journal of Muscle Research and Cell Motility, 2013, 34, 93-105. | 0.9 | 23        |
| 22 | Diversity and similarity of motor function and cross-bridge kinetics in papillary muscles of transgenic<br>mice carrying myosin regulatory light chain mutations D166V and R58Q. Journal of Molecular and<br>Cellular Cardiology, 2013, 62, 153-163.                       | 0.9 | 18        |
| 23 | Analysis of the Molecular Pathogenesis of Cardiomyopathy-Causing cTnTÂMutants I79N, ΔE96, and ΔK210.<br>Biophysical Journal, 2013, 104, 1979-1988.   | 0.2 | 9         |
| 24 | A study of tropomyosin's role in cardiac function and disease using thin-filament reconstituted myocardium. Journal of Muscle Research and Cell Motility, 2013, 34, 295-310.   | 0.9 | 44        |
| 25 | A re-interpretation of the rate of tension redevelopment (k TR) in active muscle. Journal of Muscle<br>Research and Cell Motility, 2013, 34, 407-415.  | 0.9 | 14        |
| 26 | DCM-Related Tropomyosin Mutants E40K/E54K Over-Inhibit the Actomyosin Interaction and Lead to a Decrease in the Number of Cycling Cross-Bridges. PLoS ONE, 2012, 7, e47471.  | 1.1 | 15        |
| 27 | ATP binding and crossâ€bridge detachment steps during full Ca <sup>2+</sup> activation: comparison of myofibril and muscle fibre mechanics by sinusoidal analysis. Journal of Physiology, 2012, 590, 3361-3373.  | 1.3 | 9         |
| 28 | Enhanced Active Cross-Bridges during Diastole: Molecular Pathogenesis of Tropomyosin's HCM<br>Mutations. Biophysical Journal, 2011, 100, 1014-1023.  | 0.2 | 59        |
| 29 | The Role of Tropomyosin Domains in Cooperative Activation of the Actin–Myosin Interaction. Journal of Molecular Biology, 2011, 414, 667-680.   | 2.0 | 23        |
| 30 | Correlation between cross-bridge kinetics obtained from Trp fluorescence of myofibril suspensions<br>and mechanical studies of single muscle fibers in rabbit psoas. Journal of Muscle Research and Cell<br>Motility, 2011, 32, 315-326.                                   | 0.9 | 8         |
| 31 | Structural and functional aspects of the myosin essential light chain in cardiac muscle contraction.<br>FASEB Journal, 2011, 25, 4394-4405.  | 0.2 | 44        |
| 32 | The role of tropomyosin isoforms and phosphorylation in force generation in thin-filament<br>reconstituted bovine cardiac muscle fibres. Journal of Muscle Research and Cell Motility, 2010, 31,<br>93-109.  | 0.9 | 24        |
| 33 | Tropomyosin Period 3 Is Essential for Enhancement of Isometric Tension in Thin<br>Filament-Reconstituted Bovine Myocardium. Journal of Biophysics, 2009, 2009, 1-17.   | 0.8 | 18        |
| 34 | Force transients and minimum cross-bridge models in muscular contraction. Journal of Muscle<br>Research and Cell Motility, 2007, 28, 371-395.  | 0.9 | 26        |
| 35 | Temperature-Dependence of Isometric Tension and Cross-Bridge Kinetics of Cardiac Muscle Fibers<br>Reconstituted with a Tropomyosin Internal Deletion Mutant. Biophysical Journal, 2006, 91, 4230-4240.   | 0.2 | 20        |
| 36 | Temperature change does not affect force between regulated actin filaments and heavy meromyosin in single-molecule experiments. Journal of Physiology, 2006, 574, 877-887.   | 1.3 | 31        |

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|----|--|-----|-----------|
| 37 | Use of thin filament reconstituted muscle fibres to probe the mechanism of force generation. Journal of Muscle Research and Cell Motility, 2006, 27, 455-468.  | 0.9 | 26        |
| 38 | Role of the N-terminal negative charges of actin in force generation and cross-bridge kinetics in reconstituted bovine cardiac muscle fibres. Journal of Physiology, 2005, 564, 65-82.                 | 1.3 | 21        |
| 39 | Elementary Steps of the Cross-Bridge Cycle in Fast-Twitch Fiber Types from Rabbit Skeletal Muscles.<br>Biophysical Journal, 2005, 89, 3248-3260.   | 0.2 | 31        |
| 40 | The effect of tropomyosin on force and elementary steps of the cross-bridge cycle in reconstituted bovine myocardium. Journal of Physiology, 2004, 556, 637-649.                                       | 1.3 | 28        |
| 41 | What do we learn by studying the temperature effect on isometric tension and tension transients in mammalian striated muscle fibres?. Journal of Muscle Research and Cell Motility, 2003, 24, 127-138. | 0.9 | 31        |
| 42 | Effects of tropomyosin internal deletion Δ23Tm on isometric tension and the crossâ€bridge kinetics in bovine myocardium. Journal of Physiology, 2003, 553, 457-471.                                    | 1.3 | 22        |
| 43 | Elementary Steps of the Cross-Bridge Cycle in Bovine Myocardium with and without Regulatory<br>Proteins. Biophysical Journal, 2002, 82, 915-928.   | 0.2 | 50        |
| 44 | The Length of Cooperative Units on the Thin Filament in Rabbit Psoas Muscle Fibres. Experimental<br>Physiology, 2002, 87, 691-697.   | 0.9 | 5         |
| 45 | Temperature effect on isometric tension is mediated by regulatory proteins tropomyosin and troponin in bovine myocardium. Journal of Physiology, 2002, 539, 267-276.                                   | 1.3 | 28        |
| 46 | Effect of temperature on elementary steps of the crossâ€bridge cycle in rabbit soleus slowâ€ŧwitch<br>muscle fibres. Journal of Physiology, 2001, 531, 219-234.  | 1.3 | 60        |
| 47 | Temperature Change Does Not Affect Force between Single Actin Filaments and HMM from Rabbit<br>Muscles. Biophysical Journal, 2000, 78, 3112-3119.  | 0.2 | 32        |
| 48 | Does Thin Filament Compliance Diminish the Cross-Bridge Kinetics? A Study in Rabbit Psoas Fibers.<br>Biophysical Journal, 1999, 76, 978-984.   | 0.2 | 16        |
| 49 | Comments on the paper by Dr. David Smith entitled "A strain-dependent ratchet model for [phosphate]-<br>and [ATP]-dependent muscle contraction". , 1998, 19, 713-715.                                  |     | Ο         |
| 50 | Kawai's Response to Horiuti and Sakoda. Biophysical Journal, 1993, 65, 2263-2264.  | 0.2 | 0         |
| 51 | Elementary Steps of Contraction Probed by Sinusoidal Analysis Technique in Rabbit Psoas Fibers.<br>Advances in Experimental Medicine and Biology, 1993, 332, 567-580.                                  | 0.8 | 8         |
| 52 | The Effect of Lattice Spacing Change on Cross-Bridge Kinetics in Rabbit Psoas Fibers. Advances in Experimental Medicine and Biology, 1993, 332, 581-592.   | 0.8 | 2         |
| 53 | Increased resistance of the collagen in avian dystrophic muscle to collagenolytic attack: Evidence for increased crosslinking. Muscle and Nerve, 1989, 12, 476-485.                                    | 1.0 | 12        |
| 54 | The role of collagen crosslinking in the increased stiffness of avian dystrophic muscle. Muscle and<br>Nerve, 1989, 12, 486-492.   | 1.0 | 25        |

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|----|--|-----|-----------|
| 55 | The role of orthophosphate in crossbridge kinetics in chemically skinned rabbit psoas fibres as<br>detected with sinusoidal and step length alterations. Journal of Muscle Research and Cell Motility,<br>1986, 7, 421-434.                        | 0.9 | 56        |
| 56 | Crossbridge kinetics in chemically skinned rabbit psoas fibres when th actin-myosin lattice spacing is altered by dextran T-500. Journal of Muscle Research and Cell Motility, 1985, 6, 313-332.   | 0.9 | 38        |
| 57 | Stiffness and contractile properties of avian normal and dystrophic muscle bundles as measured by sinusoidal length perturbations. Muscle and Nerve, 1985, 8, 503-510.   | 1.0 | 17        |
| 58 | Letters to the editor. Muscle and Nerve, 1985, 8, 806-809.   | 1.0 | 0         |
| 59 | Physiological and Biochemical Characterization of Avian Dystrophic Muscle Reveals Alterations of Collagen. Annals of the New York Academy of Sciences, 1985, 460, 431-433.   | 1.8 | Ο         |
| 60 | The Role of Ca2+ in Cross-Bridge Kinetics in Chemically Skinned Rabbit Psoas Fibers. Advances in Experimental Medicine and Biology, 1984, 170, 657-672.  | 0.8 | 3         |
| 61 | Alternate energy transduction routes in chemically skinned rabbit psoas muscle fibres: a further study of the effect of MgATP over a wide concentration range. Journal of Muscle Research and Cell Motility, 1981, 2, 203-214.                     | 0.9 | 14        |
| 62 | Sinusoidal analysis: a high resolution method for correlating biochemical reactions with<br>physiological processes in activated skeletal muscles of rabbit, frog and crayfish. Journal of Muscle<br>Research and Cell Motility, 1980, 1, 279-303. | 0.9 | 302       |
| 63 | Voltage fluctuations at the frog sartorius motor endplate produced by a covalently attached activator. Journal of Membrane Biology, 1979, 51, 145-159.   | 1.0 | 11        |
| 64 | Head Rotation or Dissociation?. Biophysical Journal, 1978, 22, 97-103.   | 0.2 | 52        |
| 65 | Optical Diffraction Studies of Muscle Fibers. Biophysical Journal, 1973, 13, 857-876.  | 0.2 | 81        |