# Srboljub M Mijailovich

List of Publications by Year
in descending order



| 28 | 719 | 858243 12 | 651938 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 29 | 29 | 29 | 822 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of Myosin Isoforms on Cardiac Muscle Twitch of Mice, Rats and Humans. International Journal of Molecular Sciences, 2022, 23, 1135. | 1.8 | 10 |
| 2 | Multiscale modeling of twitch contractions in cardiac trabeculae. Journal of General Physiology, 2021, 153, . | 0.9 | 28 |
| 3 | The effect of variable troponin C mutation thin filament incorporation on cardiac muscle twitch contractions. Journal of Molecular and Cellular Cardiology, 2021, 155, 112-124. | 0.9 | 13 |
| 4 | Effect of Active Lengthening and Shortening on Small-Angle X-ray Reflections in Skinned Skeletal Muscle Fibres. International Journal of Molecular Sciences, 2021, 22, 8526. | 1.8 | 10 |
| 5 | Estimation of Shear Stress Variation in Extracellular Matrix Caused by Duchenne Muscular Dystrophy. , 2021, , . | | 0 |
| 6 | Computational Modeling of Sarcomere Protein Mutations and Drug Effects on Cardiac Muscle Behavior. , 2021, , . | | 3 |
| 7 | Multi-scale striated muscle contraction model linking sarcomere length-dependent cross-bridge kinetics to macroscopic deformation. Journal of Computational Science, 2020, 39, 101062. | 1.5 | 11 |
| 8 | Effect of Myosin Isoform on Mechanics in Intact Cardiac Trabeculae from Mice, Rats and Humans. Biophysical Journal, 2020, 118, 423a. | 0.2 | 2 |
| 9 | Tuning Cooperativity of Calcium Activation in Cardiac Muscle. Learning and Analytics in Intelligent Systems, 2020, , 53-63. | 0.5 | 2 |
| 10 | The ATPase cycle of human muscle myosin II isoforms: Adaptation of a single mechanochemical cycle for different physiological roles. Journal of Biological Chemistry, 2019, 294, 14267-14278. | 1.6 | 16 |
| 11 | Myosin motor domains carrying mutations implicated in early or late onset hypertrophic cardiomyopathy have similar properties. Journal of Biological Chemistry, 2019, 294, 17451-17462. | 1.6 | 26 |
| 12 | Machine learned domain decomposition scheme applied to parallel multi-scale muscle simulation. International Journal of High Performance Computing Applications, 2019, 33, 885-896. | 2.4 | 4 |
| 13 | Modulation of Calcium Sensitivity and Twitch Contractions in Cardiac Muscle with Troponin-C Mutations: Simulations and Experiments. Biophysical Journal, 2019, 116, 116a. | 0.2 | 4 |
| 14 | Nebulin and titin modulate cross-bridge cycling and length-dependent calcium sensitivity. Journal of General Physiology, 2019, 151, 680-704. | 0.9 | 32 |
| 15 | Estimation of Forces on Actin Filaments in Living Muscle from X-ray Diffraction Patterns and Mechanical Data. International Journal of Molecular Sciences, 2019, 20, 6044. | 1.8 | 6 |
| 16 | Nebulin stiffens the thin filament and augments cross-bridge interaction in skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10369-10374. | 3.3 | 39 |
| 17 | X-ray diffraction from nonuniformly stretched helical molecules. Journal of Applied Crystallography, 2016, 49, 784-797. | 1.9 | 10 |
| 18 | Three-dimensional stochastic model of actinâ€“myosin binding in the sarcomere lattice. Journal of General Physiology, 2016, 148, 459-488. | 0.9 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dynamic Transient Responses of Muscle Fibers with a Heterogeneous Populations of Isoforms and Mutation. Biophysical Journal, 2016, 110, 299a. | 0.2 | 2 |
| 20 | Coupling finite element and huxley models in multiscale muscle modeling. , 2015, , . | | 2 |
| 21 | The Hill Model for Binding Myosin S1 to Regulated Actin Is not Equivalent to the McKillopâ€“Geeves Model. Journal of Molecular Biology, 2012, 417, 112-128. | 2.0 | 13 |
| 22 | Cooperative regulation of myosin-S1 binding to actin filaments by a continuous flexible Tmâ€“Tn chain. European Biophysics Journal, 2012, 41, 1015-1032. | 1.2 | 37 |
| 23 | Derivation of a finite-element model of lingual deformation during swallowing from the mechanics of mesoscale myofiber tracts obtained by MRI. Journal of Applied Physiology, 2010, 109, 1500-1514. | 1.2 | 44 |
| 24 | Resolution and uniqueness of estimated parameters of a model of thin filament regulation in solution. Computational Biology and Chemistry, 2010, 34, 19-33. | 1.1 | 17 |
| 25 | Effect of urethral compliance on the steady state p-Q relationships assessed with a mechanical analog of the male lower urinary tract. Neurourology and Urodynamics, 2007, 26, 234-246. | 0.8 | 13 |
| 26 | Theoretical analysis of the effects of viscous losses and abdominal straining on urinary outlet function. Neurourology and Urodynamics, 2004, 23, 76-85. | 0.8 | 7 |
| 27 | A finite element model of cell deformation during magnetic bead twisting. Journal of Applied Physiology, 2002, 93, 1429-1436. | 1.2 | 185 |
| 28 | Perturbed Equilibria of Myosin Binding in Airway Smooth Muscle: Bond-Length Distributions, Mechanics, and ATP Metabolism. Biophysical Journal, 2000, 79, 2667-2681. | 0.2 | 123 |