

# Srboljub M Mijailovich

## List of Publications by Year in descending order

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28  
papers

719  
citations

759190

12  
h-index

580810

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g-index

29  
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29  
docs citations

29  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	A finite element model of cell deformation during magnetic bead twisting. <i>Journal of Applied Physiology</i> , 2002, 93, 1429-1436.	2.5	185
2	Perturbed Equilibria of Myosin Binding in Airway Smooth Muscle: Bond-Length Distributions, Mechanics, and ATP Metabolism. <i>Biophysical Journal</i> , 2000, 79, 2667-2681.	0.5	123
3	Three-dimensional stochastic model of actin-myosin binding in the sarcomere lattice. <i>Journal of General Physiology</i> , 2016, 148, 459-488.	1.9	60
4	Derivation of a finite-element model of lingual deformation during swallowing from the mechanics of mesoscale myofiber tracts obtained by MRI. <i>Journal of Applied Physiology</i> , 2010, 109, 1500-1514.	2.5	44
5	Nebulin stiffens the thin filament and augments cross-bridge interaction in skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10369-10374.	7.1	39
6	Cooperative regulation of myosin-S1 binding to actin filaments by a continuous flexible Tm-Tn chain. <i>European Biophysics Journal</i> , 2012, 41, 1015-1032.	2.2	37
7	Nebulin and titin modulate cross-bridge cycling and length-dependent calcium sensitivity. <i>Journal of General Physiology</i> , 2019, 151, 680-704.	1.9	32
8	Multiscale modeling of twitch contractions in cardiac trabeculae. <i>Journal of General Physiology</i> , 2021, 153, .	1.9	28
9	Myosin motor domains carrying mutations implicated in early or late onset hypertrophic cardiomyopathy have similar properties. <i>Journal of Biological Chemistry</i> , 2019, 294, 17451-17462.	3.4	26
10	Resolution and uniqueness of estimated parameters of a model of thin filament regulation in solution. <i>Computational Biology and Chemistry</i> , 2010, 34, 19-33.	2.3	17
11	The ATPase cycle of human muscle myosin II isoforms: Adaptation of a single mechanochemical cycle for different physiological roles. <i>Journal of Biological Chemistry</i> , 2019, 294, 14267-14278.	3.4	16
12	Effect of urethral compliance on the steady state p-Q relationships assessed with a mechanical analog of the male lower urinary tract. <i>Neurourology and Urodynamics</i> , 2007, 26, 234-246.	1.5	13
13	The Hill Model for Binding Myosin S1 to Regulated Actin Is not Equivalent to the McKillop-Geeves Model. <i>Journal of Molecular Biology</i> , 2012, 417, 112-128.	4.2	13
14	The effect of variable troponin C mutation thin filament incorporation on cardiac muscle twitch contractions. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 155, 112-124.	1.9	13
15	Multi-scale striated muscle contraction model linking sarcomere length-dependent cross-bridge kinetics to macroscopic deformation. <i>Journal of Computational Science</i> , 2020, 39, 101062.	2.9	11
16	X-ray diffraction from nonuniformly stretched helical molecules. <i>Journal of Applied Crystallography</i> , 2016, 49, 784-797.	4.5	10
17	Effect of Active Lengthening and Shortening on Small-Angle X-ray Reflections in Skinned Skeletal Muscle Fibres. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8526.	4.1	10
18	Effect of Myosin Isoforms on Cardiac Muscle Twitch of Mice, Rats and Humans. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1135.	4.1	10

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19	Theoretical analysis of the effects of viscous losses and abdominal straining on urinary outlet function. <i>Neurourology and Urodynamics</i> , 2004, 23, 76-85.	1.5	7
20	Estimation of Forces on Actin Filaments in Living Muscle from X-ray Diffraction Patterns and Mechanical Data. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6044.	4.1	6
21	Machine learned domain decomposition scheme applied to parallel multi-scale muscle simulation. <i>International Journal of High Performance Computing Applications</i> , 2019, 33, 885-896.	3.7	4
22	Modulation of Calcium Sensitivity and Twitch Contractions in Cardiac Muscle with Troponin-C Mutations: Simulations and Experiments. <i>Biophysical Journal</i> , 2019, 116, 116a.	0.5	4
23	Computational Modeling of Sarcomere Protein Mutations and Drug Effects on Cardiac Muscle Behavior. , 2021, , .		3
24	Coupling finite element and huxley models in multiscale muscle modeling. , 2015, , .		2
25	Dynamic Transient Responses of Muscle Fibers with a Heterogeneous Populations of Isoforms and Mutation. <i>Biophysical Journal</i> , 2016, 110, 299a.	0.5	2
26	Effect of Myosin Isoform on Mechanics in Intact Cardiac Trabeculae from Mice, Rats and Humans. <i>Biophysical Journal</i> , 2020, 118, 423a.	0.5	2
27	Tuning Cooperativity of Calcium Activation in Cardiac Muscle. <i>Learning and Analytics in Intelligent Systems</i> , 2020, , 53-63.	0.6	2
28	Estimation of Shear Stress Variation in Extracellular Matrix Caused by Duchenne Muscular Dystrophy. , 2021, , .		0