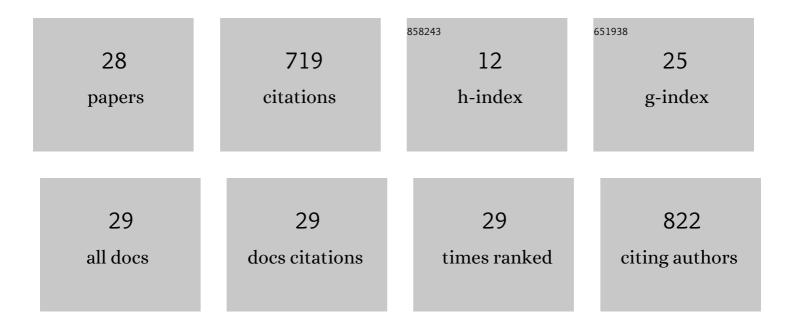
## Srboljub M Mijailovich

List of Publications by Year in descending order

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#	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 actin–myosin binding in the sarcomere lattice. Journal of General Physiology, 2016, 148, 459-488.	0.9	60

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#	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 McKillop–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 Tm–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