

Rositsa Raikova

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

195
citations

1307594

7
h-index

1058476

14
g-index

18
all docs

18
docs citations

18
times ranked

193
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of summation of individual twitches into unfused tetanus for various types of rat motor units. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 121-130.	1.7	39
2	Power frequency spectrum analysis of surface EMG signals of upper limb muscles during elbow flexion – A comparison between healthy subjects and stroke survivors. <i>Journal of Electromyography and Kinesiology</i> , 2018, 38, 7-16.	1.7	36
3	The Influence of the Way the Muscle Force is Modeled on the Predicted Results Obtained by Solving Indeterminate Problems for a Fast Elbow Flexion. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2003, 6, 181-196.	1.6	19
4	Physiological consequences of doublet discharges on motoneuronal firing and motor unit force. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 81.	3.7	19
5	Dynamic changes of twitchlike responses to successive stimuli studied by decomposition of motor unit tetanic contractions in rat medial gastrocnemius. <i>Journal of Neurophysiology</i> , 2014, 112, 3116-3124.	1.8	15
6	Separation of electrocardiographic from electromyographic signals using dynamic filtration. <i>Medical Engineering and Physics</i> , 2018, 57, 1-10.	1.7	13
7	Variability of the twitch parameters of the rat medial gastrocnemius motor units – experimental and modeling study. <i>Computers in Biology and Medicine</i> , 2007, 37, 1572-1581.	7.0	12
8	An Approach for Simulation of the Muscle Force Modeling It by Summation of Motor Unit Contraction Forces. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-10.	1.3	9
9	Prediction of Individual Muscle Forces Using Lagrange Multipliers Method – A Model of the Upper Human Limb in the Sagittal Plane: I. Theoretical Considerations. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2000, 3, 95-107.	1.6	7
10	A General Mathematical Algorithm for Predicting the Course of Unfused Tetanic Contractions of Motor Units in Rat Muscle. <i>PLoS ONE</i> , 2016, 11, e0162385.	2.5	6
11	Decomposition of motor unit tetanic contractions of rat soleus muscle: Differences between males and females. <i>Journal of Biomechanics</i> , 2015, 48, 3097-3102.	2.1	4
12	Estimation of the error between experimental tetanic force curves of MUs of rat medial gastrocnemius muscle and their models by summation of equal successive contractions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 763-770.	1.6	4
13	Prediction of Individual Muscle Forces Using Lagrange Multipliers Method – A Model of the Upper Human Limb in the Sagittal Plane: II. Numerical Experiments and Sensitivity Analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2000, 3, 167-182.	1.6	3
14	Investigation of the Peculiarities of Two-joint Muscles Using a 3 DOF Model of the Human Upper Limb in the Sagittal Plane: an Optimization Approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2001, 4, 463-490.	1.6	3
15	Biomechanical conditioning of the motor unit transitory force decrease following a reduction in stimulation rate. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2020, 12, 60.	1.7	2
16	Effect of synchronization of firings of different motor unit types on the force variability in a model of the rat medial gastrocnemius muscle. <i>PLoS Computational Biology</i> , 2021, 17, e1008282.	3.2	2
17	Prolonged activity evokes potentiation and the ‘‘oesag’’-phenomenon in slow motor units of rat soleus. <i>Acta Neurobiologiae Experimentalis</i> , 2016, 76, 152-157.	0.7	2