

Sergiy Yakovenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5241967/publications.pdf>

Version: 2024-02-01

30
papers

1,091
citations

516710

16
h-index

552781

26
g-index

42
all docs

42
docs citations

42
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	Compensatory Strategies Due to Knee Flexion Constraint during Gait of Non-Disabled Adults. Journal of Motor Behavior, 2022, 54, 281-290.	0.9	0
2	A segmented forearm model of hand pronation-supination approximates joint moments for real time applications**Research supported by National Institute of General Medical Sciences and the National Institute of Child Health and Human Development.. , 2021, 2021, 751-754.		0
3	The same muscle synergies are used to control symmetric and asymmetric locomotion. , 2021, , .		1
4	Solving musculoskeletal biomechanics with machine learning. PeerJ Computer Science, 2021, 7, e663.	4.5	8
5	Young adults perceive small disturbances to their walking balance even when distracted. Gait and Posture, 2021, 91, 198-204.	1.4	3
6	Quantifying Performance in Robotic Surgery Training Using Muscle-Based Activity Metrics. , 2021, , .		0
7	Computational evidence for nonlinear feedforward modulation of fusimotor drive to antagonistic co-contracting muscles. Scientific Reports, 2020, 10, 10625.	3.3	11
8	Approximating complex musculoskeletal biomechanics using multidimensional autogenerating polynomials. PLoS Computational Biology, 2020, 16, e1008350.	3.2	10
9	A novel method of identifying motor primitives using wavelet decomposition. , 2018, 2018, 122-125.		0
10	Model of a bilateral Brown-type central pattern generator for symmetric and asymmetric locomotion. Journal of Neurophysiology, 2018, 119, 1071-1083.	1.8	3
11	Asymmetric Walkway: A Novel Behavioral Assay for Studying Asymmetric Locomotion. Journal of Visualized Experiments, 2016, , e52921.	0.3	3
12	Biomechanical Constraints Underlying Motor Primitives Derived from the Musculoskeletal Anatomy of the Human Arm. PLoS ONE, 2016, 11, e0164050.	2.5	28
13	Similar Motor Cortical Control Mechanisms for Precise Limb Control during Reaching and Locomotion. Journal of Neuroscience, 2015, 35, 14476-14490.	3.6	40
14	Muscle synergy decomposition analysis using wavelet detection in human locomotor activity. , 2015, , .		1
15	Automated Assessment of Upper Extremity Movement Impairment due to Stroke. PLoS ONE, 2014, 9, e104487.	2.5	77
16	A hierarchical perspective on rhythm generation for locomotor control. Progress in Brain Research, 2011, 188, 151-166.	1.4	25
17	Sequential Activation of Motor Cortical Neurons Contributes to Intralimb Coordination During Reaching in the Cat by Modulating Muscle Synergies. Journal of Neurophysiology, 2011, 105, 388-409.	1.8	63
18	Integration of Predictive Feedforward and Sensory Feedback Signals for Online Control of Visually Guided Movement. Journal of Neurophysiology, 2009, 102, 914-930.	1.8	108

#	ARTICLE	IF	CITATIONS
19	A Motor Cortical Contribution to the Anticipatory Postural Adjustments That Precede Reaching in the Cat. <i>Journal of Neurophysiology</i> , 2009, 102, 853-874.	1.8	38
20	Cortical mechanisms involved in visuomotor coordination during precision walking. <i>Brain Research Reviews</i> , 2008, 57, 199-211.	9.0	172
21	Strengthening Corticospinal Connections with Chronic Electrical Stimulation after Injury. <i>Journal of Neuroscience</i> , 2008, 28, 3262-3263.	3.6	3
22	Predictive and reactive tuning of the locomotor CPG. <i>Integrative and Comparative Biology</i> , 2007, 47, 474-481.	2.0	24
23	The neuromechanical tuning hypothesis. <i>Progress in Brain Research</i> , 2007, 165, 255-265.	1.4	40
24	Intraspinal Stimulation Caudal to Spinal Cord Transections in Rats. Testing the Propriospinal Hypothesis. <i>Journal of Neurophysiology</i> , 2007, 97, 2570-2574.	1.8	39
25	Conceptualizing the mammalian locomotor central pattern generator with modelling. <i>Journal of Physiology</i> , 2007, 580, 363-364.	2.9	3
26	Contribution of stretch reflexes to locomotor control: a modeling study. <i>Biological Cybernetics</i> , 2004, 90, 146-155.	1.3	126
27	Sensory Control of Locomotion: Reflexes Versus Higher-Level Control. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 357-367.	1.6	51
28	Chapter 9 Activation and coordination of spinal motoneuron pools after spinal cord injury. <i>Progress in Brain Research</i> , 2002, 137, 109-124.	1.4	28
29	Spatiotemporal Activation of Lumbosacral Motoneurons in the Locomotor Step Cycle. <i>Journal of Neurophysiology</i> , 2002, 87, 1542-1553.	1.8	140
30	Isometric muscle length-tension curves do not predict angle-torque curves of human wrist in continuous active movements. <i>Journal of Biomechanics</i> , 2000, 33, 1341-1348.	2.1	22