Innokentiy A Kastalskiy

List of Publications by Year
in descending order

24	317	1040056 9	940533 16
papers	citations	h-index	g-index

24	24	24	339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Astrocytes mediate analogous memory in a multi-layer neuronâ€“astrocyte network. Neural Computing and Applications, 2022, 34, 9147-9160.	5.6	20
2	Modelling working memory in neuron-astrocyte network. , 2021, , .		1
3	Astrocytesâ€™ signals guided storage and retrieval of patterns by an SNN. , 2021, , .		1
4	Social stress drives the multi-wave dynamics of COVID-19 outbreaks. Scientific Reports, 2021, 11, 22497.	3.3	8
5	Impact of the steady state IP3 level on the intracellular Ca2+ signaling in spatially distributed model of astrocyte. , 2020, , .		0
6	Astrocyte as Spatiotemporal Integrating Detector of Neuronal Activity. Frontiers in Physiology, 2019, 10, 294.	2.8	40
7	Glial cell line-derived neurotrophic factor (GDNF) counteracts hypoxic damage to hippocampal neural network function in vitro. Brain Research, 2018, 1678, 310-321.	2.2	33
8	Cognitive Neural Network Driving DoF-Scalable Limbs in Time-Evolving Situations. , 2018, , .		1
9	Latent Factors Limiting the Performance of sEMG-Interfaces. Sensors, 2018, 18, 1122.	3.8	58
10	A Neuromuscular Interface for Robotic Devices Control. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-8.	1.3	7
11	Features of Neural Network Formation and Their Functions in Primary Hippocampal Cultures in the Context of Chronic TrkB Receptor System Influence. Frontiers in Physiology, 2018, 9, 1925.	2.8	22
12	Brain-Controlled Biometric Signals Employed to Operate External Technical Devices. , 2018, , 59-71.		2
13	Development of a Neurally-Controlled Vehicle â€” Neuro-Mobile â€” for Driving by Individuals with Motor Deficiency. Sovremennye Tehnologii V Medicine, 2018, 10, 49.	1.1	2
14	A Functional Electrical Stimulation System for Integration in an Exoskeleton. Sovremennye Tehnologii V Medicine, 2018, 10, 104.	1.1	2
15	A Mobile Exoskeleton Control System Using Electromyographic Signals from Human Muscles. Sovremennye Tehnologii V Medicine, 2017, 9, 162.	1.1	1
16	A Biofeedback Control System of the Exoskeleton Trainer for Lower Limbs Motor Function Recovery. , 2017, , .		2
17	Network response synchronization enhanced by synaptic plasticity. European Physical Journal: Special Topics, 2016, 225, 29-39.	2.6	11
18	A Human-Computer Interface based on Electromyography Command-Proportional Control. , 2016, , .		6

#	Article	IF	Citations
19	Intracellular Calcium Network Activity in the Hippocampus CA3 Region in Rat Postnatal Development. Sovremennye Tehnologii V Medicine, 2016, 8, 167-177.	1.1	0
20	A Spiking Neural Network in sEMG Feature Extraction. Sensors, 2015, 15, 27894-27904.	3.8	26
21	Myoelectric Control System of Lower Limb Exoskeleton for Re-training Motion Deficiencies. Lecture Notes in Computer Science, 2015, , 428-435.	1.3	5
22	Combined Use of Command-Proportional Control of External Robotic Devices Based on Electromyography Signals. Sovremennye Tehnologii V Medicine, 2015, 7, 30-38.	1.1	9
23	Pattern retrieval in a three-layer oscillatory network with a context dependent synaptic connectivity. Neural Networks, 2012, 33, 67-75.	5.9	5
24	Spiking Signatures of Spontaneous Activity Bursts in Hippocampal Cultures. Frontiers in Computational Neuroscience, 2011, 5, 46.	2.1	55