Tuomo MÃ¤ki-Marttunen

List of Publications by Year
in descending order

19 papers	381 citations	840776 11 h-index	888059 17 g-index
26 all docs	26 docs citations	26 times ranked	397 citing authors

#	Article	IF	Citations
1	Effect of Ionic Diffusion on Extracellular Potentials in Neural Tissue. PLoS Computational Biology, 2016, 12, e1005193.	3.2	58
2	An Evaluation of the Accuracy of Classical Models for Computing the Membrane Potential and Extracellular Potential for Neurons. Frontiers in Computational Neuroscience, 2017, 11, 27.	2.1	55
3	Alterations in Schizophrenia-Associated Genes Can Lead to Increased Power in Delta Oscillations. Cerebral Cortex, 2019, 29, 875-891.	2.9	30
4	A unified computational model for cortical post-synaptic plasticity. ELife, 2020, 9, .	6.0	29
5	A stepwise neuron model fitting procedure designed for recordings with high spatial resolution: Application to layer 5 pyramidal cells. Journal of Neuroscience Methods, 2018, 293, 264-283.	2.5	27
6	Pleiotropic effects of schizophrenia-associated genetic variants in neuron firing and cardiac pacemaking revealed by computational modeling. Translational Psychiatry, 2017, 7, 5.	4.8	24
7	Functional Effects of Schizophrenia-Linked Genetic Variants on Intrinsic Single-Neuron Excitability: A Modeling Study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2016, 1, 49-59.	1.5	21
8	Biophysical Psychiatryâ€"How Computational Neuroscience Can Help to Understand the Complex Mechanisms of Mental Disorders. Frontiers in Psychiatry, 2019, 10, 534.	2.6	19
9	Structure-Dynamics Relationships in Bursting Neuronal Networks Revealed Using a Prediction Framework. PLoS ONE, 2013, 8, e69373.	2.5	15
10	Ion diffusion may introduce spurious current sources in current-source density (CSD) analysis. Journal of Neurophysiology, 2017, 118, 114-120.	1.8	15
11	The effects of neuron morphology on graph theoretic measures of network connectivity: the analysis of a two-level statistical model. Frontiers in Neuroanatomy, 2015, 9, 76.	1.7	13
12	A moleculeâ€based genetic association approach implicates a range of voltageâ€gated calcium channels associated with schizophrenia. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2018, 177, 454-467.	1.7	12
13	Experience-dependent modulation of the visual evoked potential: Testing effect sizes, retention over time, and associations with age in 415 healthy individuals. NeuroImage, 2020, 223, 117302.	4.2	12
14	Information Diversity in Structure and Dynamics of Simulated Neuronal Networks. Frontiers in Computational Neuroscience, 2011, 5, 26.	2.1	11
15	Evidence for Reduced Long-Term Potentiation-Like Visual Cortical Plasticity in Schizophrenia and Bipolar Disorder. Schizophrenia Bulletin, 2021, 47, 1751-1760.	4.3	8
16	Balance between Noise and Information Flow Maximizes Set Complexity of Network Dynamics. PLoS ONE, 2013, 8, e56523.	2.5	6
17	Computational Modeling of Genetic Contributions to Excitability and Neural Coding in Layer V Pyramidal Cells: Applications to Schizophrenia Pathology. Frontiers in Computational Neuroscience, 2019, 13, 66.	2.1	5
18	The effect of alterations of schizophrenia-associated genes on gamma band oscillations. NPJ Schizophrenia, 2022, 8, .	3.6	3

#	Article	IF	Citations
19	Whole-cell morphological properties of neurons constrain the nonrandom features of network connectivity. BMC Neuroscience, 2015, 16, .	1.9	0