

Jarno M A Tanskanen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1044867/publications.pdf>

Version: 2024-02-01

30
papers

416
citations

1162367

8
h-index

839053

18
g-index

32
all docs

32
docs citations

32
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	Human embryonic stem cell-derived neuronal cells form spontaneously active neuronal networks in vitro. <i>Experimental Neurology</i> , 2009, 218, 109-116.	2.0	113
2	Burst analysis tool for developing neuronal networks exhibiting highly varying action potential dynamics. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 38.	1.2	62
3	Substantial variation in the cardiac differentiation of human embryonic stem cell lines derived and propagated under the same conditions—a comparison of multiple cell lines. <i>Annals of Medicine</i> , 2009, 41, 360-370.	1.5	60
4	Power prediction in mobile communication systems using an optimal neural-network structure. <i>IEEE Transactions on Neural Networks</i> , 1997, 8, 1446-1455.	4.8	44
5	Spectral Entropy Based Neuronal Network Synchronization Analysis Based on Microelectrode Array Measurements. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 112.	1.2	18
6	Averaging in vitro cardiac field potential recordings obtained with microelectrode arrays. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 199-205.	2.6	14
7	Atomic layer deposited iridium oxide thin film as microelectrode coating in stem cell applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	0.9	11
8	Astrocytes Exhibit a Protective Role in Neuronal Firing Patterns under Chemically Induced Seizures in Neuron—Astrocyte Co-Cultures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12770.	1.8	11
9	Joint analysis of extracellular spike waveforms and neuronal network bursts. <i>Journal of Neuroscience Methods</i> , 2016, 259, 143-155.	1.3	10
10	Independent component analysis of neural populations from multielectrode field potential measurements. <i>Journal of Neuroscience Methods</i> , 2005, 145, 213-232.	1.3	9
11	Toward Closed-Loop Electrical Stimulation of Neuronal Systems: A Review. <i>Bioelectricity</i> , 2020, 2, 328-347.	0.6	9
12	Epileptic EEG signal classification with marching pursuit based on harmony search method. , 2012, , .		8
13	All Titanium Microelectrode Array for Field Potential Measurements from Neurons and Cardiomyocytes—A Feasibility Study. <i>Micromachines</i> , 2011, 2, 394-409.	1.4	7
14	Advances in Human Stem Cell-Derived Neuronal Cell Culturing and Analysis. <i>Advances in Neurobiology</i> , 2019, 22, 299-329.	1.3	7
15	On the threshold based neuronal spike detection, and an objective criterion for setting the threshold. , 2015, , .		5
16	Independent Component Analysis of Parameterized ECG Signals. , 2006, 2006, 5704-7.		4
17	Quantification and automatized adaptive detection of in vivo and in vitro neuronal bursts based on signal complexity. , 2015, 2015, 4729-32.		4
18	Analyzing the feasibility of time correlated spectral entropy for the assessment of neuronal synchrony. , 2016, 2016, 1595-1598.		4

#	ARTICLE	IF	CITATIONS
19	Lead field theory provides a powerful tool for designing microelectrode array impedance measurements for biological cell detection and observation. BioMedical Engineering OnLine, 2017, 16, 85.	1.3	4
20	Automatic objective thresholding to detect neuronal action potentials. , 2016, , .		3
21	Evaluation of the effective and functional connectivity estimators for microelectrode array recordings during in vitro neuronal network maturation. IFMBE Proceedings, 2018, , 1105-1108.	0.2	3
22	Recording cortical EEG subcortically — Improved EEG monitoring from depth-stimulation electrodes. , 2011, , .		1
23	Extracellular Electrical Stimulation-based in Vitro Neuroscience: A Minireview of Methods and a Paradigm Shift Proposal. , 2019, , .		1
24	Optimal Classification of Epileptic EEG Signals Using Neural Networks and Harmony Search Methods. Journal of Software, 2014, 9, .	0.6	1
25	Probabilistic Error Free Design of Long Fixed-Point Polynomial FIR Predictors. , 2006, , .		0
26	Observing Frequency Content Time Evolution of Independent Hippocampal Signals. , 2006, 2006, 727-30.		0
27	A fast stimulability screening protocol for neuronal cultures on microelectrode arrays. , 2015, 2015, 3440-3.		0
28	Enhancing CT 3D Images by Independent Component Analysis of Projection Images. IFMBE Proceedings, 2020, , 381-389.	0.2	0
29	Independent Component Analysis of Parameterized ECG Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
30	Observing Frequency Content Time Evolution of Independent Hippocampal Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0