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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Human embryonic stem cell-derived neuronal cells form spontaneously active neuronal networks in vitro. Experimental Neurology, 2009, 218, 109-116.	4.1	113
2	Burst analysis tool for developing neuronal networks exhibiting highly varying action potential dynamics. Frontiers in Computational Neuroscience, 2012, 6, 38.	2.1	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. Annals of Medicine, 2009, 41, 360-370.	3.8	60
4	Power prediction in mobile communication systems using an optimal neural-network structure. IEEE Transactions on Neural Networks, 1997, 8, 1446-1455.	4.2	44
5	Spectral Entropy Based Neuronal Network Synchronization Analysis Based on Microelectrode Array Measurements. Frontiers in Computational Neuroscience, 2016, 10, 112.	2.1	18
6	Averaging in vitro cardiac field potential recordings obtained with microelectrode arrays. Computer Methods and Programs in Biomedicine, 2011, 104, 199-205.	4.7	14
7	Atomic layer deposited iridium oxide thin film as microelectrode coating in stem cell applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	11
8	Astrocytes Exhibit a Protective Role in Neuronal Firing Patterns under Chemically Induced Seizures in Neuron–Astrocyte Co-Cultures. International Journal of Molecular Sciences, 2021, 22, 12770.	4.1	11
9	Joint analysis of extracellular spike waveforms and neuronal network bursts. Journal of Neuroscience Methods, 2016, 259, 143-155.	2.5	10
10	Independent component analysis of neural populations from multielectrode field potential measurements. Journal of Neuroscience Methods, 2005, 145, 213-232.	2.5	9
11	Toward Closed-Loop Electrical Stimulation of Neuronal Systems: A Review. Bioelectricity, 2020, 2, 328-347.	1.1	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. Micromachines, 2011, 2, 394-409.	2.9	7
14	Advances in Human Stem Cell-Derived Neuronal Cell Culturing and Analysis. Advances in Neurobiology, 2019, 22, 299-329.	1.8	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		4

synchrony. , 2016, 2016, 1595-1598.

#	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.	2.7	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.	0.3	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.	0.3	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