Claude Bedard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10732218/publications.pdf

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25	949	840776 11	888059 17
papers	citations	h-index	g-index

28	28	28	921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling Extracellular Field Potentials and the Frequency-Filtering Properties of Extracellular Space. Biophysical Journal, 2004, 86, 1829-1842.	0.5	264
2	Macroscopic Models of Local Field Potentials and the Apparent 1/f Noise in Brain Activity. Biophysical Journal, 2009, 96, 2589-2603.	0.5	184
3	Comparative power spectral analysis of simultaneous elecroencephalographic and magnetoencephalographic recordings in humans suggests non-resistive extracellular media. Journal of Computational Neuroscience, 2010, 29, 405-421.	1.0	114
4	Evidence for frequency-dependent extracellular impedance from the transfer function between extracellular and intracellular potentials. Journal of Computational Neuroscience, 2010, 29, 389-403.	1.0	63
5	Generalized theory for current-source-density analysis in brain tissue. Physical Review E, 2011, 84, 041909.	2.1	57
6	Intracellular Impedance Measurements Reveal Non-ohmic Properties of the Extracellular Medium around Neurons. Biophysical Journal, 2016, 110, 234-246.	0.5	48
7	Generalized cable theory for neurons in complex and heterogeneous media. Physical Review E, 2013, 88, 022709.	2.1	39
8	Non-homogeneous extracellular resistivity affects the current-source density profiles of upâ€“down state oscillations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3802-3819.	3.4	32
9	A Modified Cable Formalism for Modeling Neuronal Membranes at High Frequencies. Biophysical Journal, 2008, 94, 1133-1143.	0.5	31
10	Do neurons generate monopolar current sources?. Journal of Neurophysiology, 2012, 108, 953-955.	1.8	31
11	Local field potentials. , 0, , 136-191.		23
12	A framework to reconcile frequency scaling measurements, from intracellular recordings, local-field potentials, up to EEG and MEGÂsignals. Journal of Integrative Neuroscience, 2017, 16, 3-18.	1.7	21
13	Generalized cable formalism to calculate the magnetic field of single neurons and neuronal populations. Physical Review E, 2014, 90, 042723.	2.1	12
14	Is the Extracellular Impedance High and Non-resistive in Cerebral Cortex?. Biophysical Journal, 2017, 113, 1639-1642.	0.5	9
15	Reply to Gratiy et al.. Journal of Neurophysiology, 2013, 109, 1683-1683.	1.8	7
16	Mean-Field Formulation of Maxwell Equations to Model Electrically Inhomogeneous and Isotropic Media. Journal of Electromagnetic Analysis and Applications, 2014, 06, 296-302.	0.2	5
17	Extracellular and intracellular components ofÂtheÂimpedance of neural tissue. Biophysical Journal, 2022, 121, 869-885.	0.5	5
18	Comparative power spectral analysis of simultaneous electroencephalographic and magnetoencephalographic recordings in humans suggests non-resistive extracellular media. Journal of Computational Neuroscience, 2010, , 1.	1.0	3

#	Article	IF	Citations
19	Local Field Potential Interaction with the Extracellular Medium. , 2014, , 1-10.		1
20	Local Field Potentials (LFP). , 2014, , 1-11.		0
21	Generalized Cable Models of Neurons and Dendrites. , 2016, , 3037-3047.		0
22	Local Field Potentials: LFP. , 2020, , 1-12.		0
23	Local Field Potentials: Interaction with the Extracellular Medium. , 2020, , 1-9.		0
24	Local Field Potentials: Interaction with the Extracellular Medium. , 2022, , 1895-1903.		0
25	Local Field Potentials: LFP. , 2022, , 1903-1914.		0