

Bruce J Gluckman

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,585
citations

567281

15
h-index

552781

26
g-index

36
all docs

36
docs citations

36
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic Resonance in a Neuronal Network from Mammalian Brain. <i>Physical Review Letters</i> , 1996, 77, 4098-4101.	7.8	316
2	Sensitivity of Neurons to Weak Electric Fields. <i>Journal of Neuroscience</i> , 2003, 23, 7255-7261.	3.6	252
3	Adaptive Electric Field Control of Epileptic Seizures. <i>Journal of Neuroscience</i> , 2001, 21, 590-600.	3.6	193
4	Control of Traveling Waves in the Mammalian Cortex. <i>Physical Review Letters</i> , 2005, 94, 028103.	7.8	103
5	Extracting unstable periodic orbits from chaotic time series data. <i>Physical Review E</i> , 1997, 55, 5398-5417.	2.1	102
6	Periodic Orbits: A New Language for Neuronal Dynamics. <i>Biophysical Journal</i> , 1998, 74, 2776-2785.	0.5	94
7	A Model of the Effects of Applied Electric Fields on Neuronal Synchronization. <i>Journal of Computational Neuroscience</i> , 2005, 19, 53-70.	1.0	88
8	In Vivo Modulation of Hippocampal Epileptiform Activity with Radial Electric Fields. <i>Epilepsia</i> , 2003, 44, 768-777.	5.1	65
9	Rapid Eye Movement Sleep and Hippocampal Theta Oscillations Precede Seizure Onset in the Tetanus Toxin Model of Temporal Lobe Epilepsy. <i>Journal of Neuroscience</i> , 2014, 34, 1105-1114.	3.6	59
10	Modulation of hippocampal rhythms by subthreshold electric fields and network topology. <i>Journal of Computational Neuroscience</i> , 2013, 34, 369-389.	1.0	50
11	Improved sleep-wake and behavior discrimination using MEMS accelerometers. <i>Journal of Neuroscience Methods</i> , 2007, 163, 373-383.	2.5	35
12	Reconstructing Mammalian Sleep Dynamics with Data Assimilation. <i>PLoS Computational Biology</i> , 2012, 8, e1002788.	3.2	29
13	From Generalized Synchrony to Topological Decoherence: Emergent Sets in Coupled Chaotic Systems. <i>Physical Review Letters</i> , 2000, 84, 1689-1692.	7.8	28
14	Seizure entrainment with polarizing low-frequency electric fields in a chronic animal epilepsy model. <i>Journal of Neural Engineering</i> , 2009, 6, 046009.	3.5	23
15	Stochastic resonance in mammalian neuronal networks. <i>Chaos</i> , 1998, 8, 588-598.	2.5	22
16	Tracking unstable periodic orbits in nonstationary high-dimensional chaotic systems: Method and experiment. <i>Physical Review E</i> , 1997, 55, 4935-4942.	2.1	16
17	The systemDrive: a Multisite, Multiregion Microdrive with Independent Drive Axis Angling for Chronic Multimodal Systems Neuroscience Recordings in Freely Behaving Animals. <i>ENEURO</i> .0261-18.2018.	1.9	16
18	A Brain-Heart Biomarker for Epileptogenesis. <i>Journal of Neuroscience</i> , 2018, 38, 8473-8483.	3.6	15

#	ARTICLE	IF	CITATIONS
19	The role of inhibition in oscillatory wave dynamics in the cortex. <i>European Journal of Neuroscience</i> , 2012, 36, 2201-2212.	2.6	13
20	A Murine Model to Study Epilepsy and SUDEP Induced by Malaria Infection. <i>Scientific Reports</i> , 2017, 7, 43652.	3.3	12
21	THE BREAKDOWN OF SYNCHRONIZATION IN SYSTEMS OF NONIDENTICAL CHAOTIC OSCILLATORS: THEORY AND EXPERIMENT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 2705-2713.	1.7	10
22	Data assimilation of glucose dynamics for use in the intensive care unit. , 2012, 2012, 5437-40.		8
23	Control of Spreading Depression with Electrical Fields. <i>Scientific Reports</i> , 2018, 8, 8769.	3.3	8
24	Frequency dependence of behavioral modulation by hippocampal electrical stimulation. <i>Journal of Neurophysiology</i> , 2014, 111, 470-480.	1.8	7
25	Multi-taper transfer function estimation for stimulation artifact removal from neural recordings. , 2008, 2008, 2772-6.		4
26	The neural basis for sleep regulation " Data assimilation from animal to model. , 2016, 2016, 1061-1065.		3
27	Differentiability implies continuity in neuronal dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2001, 148, 175-181.	2.8	1
28	Toward a Wearable Data Assimilation Platform. , 2019, , .		1
29	Optimization of an unscented Kalman filter for an embedded platform. <i>Computers in Biology and Medicine</i> , 2022, 146, 105557.	7.0	1
30	Control of Seizing Neuronal Networks. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
31	Mechanisms determining safety and performance of brain stimulating electrodes. , 2009, 2009, 689-92.		0