

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	Optimization of an unscented Kalman filter for an embedded platform. Computers in Biology and Medicine, 2022, 146, 105557.	7.0	1
2	Toward a Wearable Data Assimilation Platform. , 2019, , .		1
3	A Brainâ€œHeart Biomarker for Epileptogenesis. Journal of Neuroscience, 2018, 38, 8473-8483.	3.6	15
4	Control of Spreading Depression with Electrical Fields. Scientific Reports, 2018, 8, 8769.	3.3	8
5	The systemDrive: a Multisite, Multiregion Microdrive with Independent Drive Axis Angling for Chronic Multimodal Systems Neuroscience Recordings in Freely Behaving Animals. ENeuro, 2018, 5, ENEURO.0261-18.2018.	1.9	16
6	A Murine Model to Study Epilepsy and SUDEP Induced by Malaria Infection. Scientific Reports, 2017, 7, 43652.	3.3	12
7	The neural basis for sleep regulation â€œ Data assimilation from animal to model. , 2016, 2016, 1061-1065.		3
8	Rapid Eye Movement Sleep and Hippocampal Theta Oscillations Precede Seizure Onset in the Tetanus Toxin Model of Temporal Lobe Epilepsy. Journal of Neuroscience, 2014, 34, 1105-1114.	3.6	59
9	Frequency dependence of behavioral modulation by hippocampal electrical stimulation. Journal of Neurophysiology, 2014, 111, 470-480.	1.8	7
10	Modulation of hippocampal rhythms by subthreshold electric fields and network topology. Journal of Computational Neuroscience, 2013, 34, 369-389.	1.0	50
11	Reconstructing Mammalian Sleep Dynamics with Data Assimilation. PLoS Computational Biology, 2012, 8, e1002788.	3.2	29
12	Data assimilation of glucose dynamics for use in the intensive care unit. , 2012, 2012, 5437-40.		8
13	The role of inhibition in oscillatory wave dynamics in the cortex. European Journal of Neuroscience, 2012, 36, 2201-2212.	2.6	13
14	Mechanisms determining safety and performance of brain stimulating electrodes. , 2009, 2009, 689-92.		0
15	Seizure entrainment with polarizing low-frequency electric fields in a chronic animal epilepsy model. Journal of Neural Engineering, 2009, 6, 046009.	3.5	23
16	Multi-taper transfer function estimation for stimulation artifact removal from neural recordings. , 2008, 2008, 2772-6.		4
17	Improved sleepâ€œwake and behavior discrimination using MEMS accelerometers. Journal of Neuroscience Methods, 2007, 163, 373-383.	2.5	35
18	A Model of the Effects of Applied Electric Fields on Neuronal Synchronization. Journal of Computational Neuroscience, 2005, 19, 53-70.	1.0	88

#	ARTICLE	IF	CITATIONS
19	Control of Traveling Waves in the Mammalian Cortex. <i>Physical Review Letters</i> , 2005, 94, 028103.	7.8	103
20	In Vivo Modulation of Hippocampal Epileptiform Activity with Radial Electric Fields. <i>Epilepsia</i> , 2003, 44, 768-777.	5.1	65
21	Sensitivity of Neurons to Weak Electric Fields. <i>Journal of Neuroscience</i> , 2003, 23, 7255-7261.	3.6	252
22	Control of Seizing Neuronal Networks. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
23	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
24	Adaptive Electric Field Control of Epileptic Seizures. <i>Journal of Neuroscience</i> , 2001, 21, 590-600.	3.6	193
25	Differentiability implies continuity in neuronal dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2001, 148, 175-181.	2.8	1
26	From Generalized Synchrony to Topological Decoherence: Emergent Sets in Coupled Chaotic Systems. <i>Physical Review Letters</i> , 2000, 84, 1689-1692.	7.8	28
27	Periodic Orbits: A New Language for Neuronal Dynamics. <i>Biophysical Journal</i> , 1998, 74, 2776-2785.	0.5	94
28	Stochastic resonance in mammalian neuronal networks. <i>Chaos</i> , 1998, 8, 588-598.	2.5	22
29	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
30	Extracting unstable periodic orbits from chaotic time series data. <i>Physical Review E</i> , 1997, 55, 5398-5417.	2.1	102
31	Stochastic Resonance in a Neuronal Network from Mammalian Brain. <i>Physical Review Letters</i> , 1996, 77, 4098-4101.	7.8	316