Bruce Gluckman

List of Publications by Year
in descending order

25 papers	1,185 citations	759233 12 h-index	642732 23 g-index
33 all docs	33 docs citations	33 times ranked	1275 citing authors

#	Article	IF	Citations
1	Sensitivity of Neurons to Weak Electric Fields. Journal of Neuroscience, 2003, 23, 7255-7261.	3.6	252
2	Electric field suppression of epileptiform activity in hippocampal slices. Journal of Neurophysiology, 1996, 76, 4202-4205.	1.8	193
3	Adaptive Electric Field Control of Epileptic Seizures. Journal of Neuroscience, 2001, 21, 590-600.	3.6	193
4	Control of Traveling Waves in the Mammalian Cortex. Physical Review Letters, 2005, 94, 028103.	7.8	103
5	Personalized glucose forecasting for type 2 diabetes using data assimilation. PLoS Computational Biology, 2017, 13, e1005232.	3.2	74
6	In Vivo Modulation of Hippocampal Epileptiform Activity with Radial Electric Fields. Epilepsia, 2003, 44, 768-777.	5.1	65
7	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
8	Functional hyperemia drives fluid exchange in the paravascular space. Fluids and Barriers of the CNS, 2020, 17, 52.	5.0	42
9	Improved sleepâ€“wake and behavior discrimination using MEMS accelerometers. Journal of Neuroscience Methods, 2007, 163, 373-383.	2.5	35
10	Mechanistic machine learning: how data assimilation leverages physiologic knowledge using Bayesian inference to forecast the future, infer the present, and phenotype. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1392-1401.	4.4	30
11	Reconstructing Mammalian Sleep Dynamics with Data Assimilation. PLoS Computational Biology, 2012, 8, e1002788.	3.2	29
12	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
13	A Brainâ€“Heart Biomarker for Epileptogenesis. Journal of Neuroscience, 2018, 38, 8473-8483.	3.6	15
14	A Murine Model to Study Epilepsy and SUDEP Induced by Malaria Infection. Scientific Reports, 2017, 7, 43652.	3.3	12
15	A Flexible Vanadium Oxide Thermistor Array for Localized Temperature Field Measurements in Brain. IEEE Sensors Journal, 2016, 16, 2211-2212.	4.7	10
16	Control of Spreading Depression with Electrical Fields. Scientific Reports, 2018, 8, 8769.	3.3	8
17	Optimal-channel Selection Algorithms in Mental Tasks based Brain-computer Interface. , 2018, , .		7
18	Micro-reaction chamber electrodes for neural stimulation and recording. , 2011, 2011, 656-9.		5

#	Article	IF	Citations
19	Model-based analysis and forecast of sleepâ€“wake regulatory dynamics: Tools and applications to data. Chaos, 2021, 31, 013139.	2.5	4
20	The neural basis for sleep regulation â€” Data assimilation from animal to model. , 2016, 2016, 1061-1065.		3
21	Statistical evaluation of forecasts. Physical Review E, 2014, 90, 022133.	2.1	2
22	Experimental nonlinear dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2143-2146.	3.4	1
23	Toward a Wearable Data Assimilation Platform. , 2019, , .		1
24	OBSERVING THE SLEEP-WAKE REGULATORY SYSTEM TO IMPROVE PREDICTION OF SEIZURES. , 2013, , .		1
25	Optimization of an unscented Kalman filter for an embedded platform. Computers in Biology and Medicine, 2022, 146, 105557.	7.0	1