

Casey O Diekman

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

764
citations

623734

14
h-index

610901

24
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31
all docs

31
docs citations

31
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	A Conserved Bicycle Model for Circadian Clock Control of Membrane Excitability. <i>Cell</i> , 2015, 162, 836-848.	28.9	178
2	Daily Electrical Silencing in the Mammalian Circadian Clock. <i>Science</i> , 2009, 326, 281-284.	12.6	156
3	Reentrainment of the circadian pacemaker during jet lag: East-west asymmetry and the effects of north-south travel. <i>Journal of Theoretical Biology</i> , 2018, 437, 261-285.	1.7	51
4	Computational Neuroscience: Mathematical and Statistical Perspectives. <i>Annual Review of Statistics and Its Application</i> , 2018, 5, 183-214.	7.0	48
5	Causes and Consequences of Hyperexcitation in Central Clock Neurons. <i>PLoS Computational Biology</i> , 2013, 9, e1003196.	3.2	39
6	Neuronal oscillations on an ultra-slow timescale: daily rhythms in electrical activity and gene expression in the mammalian master circadian clockwork. <i>European Journal of Neuroscience</i> , 2018, 48, 2696-2717.	2.6	31
7	Data Assimilation Methods for Neuronal State and Parameter Estimation. <i>Journal of Mathematical Neuroscience</i> , 2018, 8, 11.	2.4	30
8	Modeling the Neuroprotective Role of Enhanced Astrocyte Mitochondrial Metabolism during Stroke. <i>Biophysical Journal</i> , 2013, 104, 1752-1763.	0.5	24
9	Entrainment Maps. <i>Journal of Biological Rhythms</i> , 2016, 31, 598-616.	2.6	23
10	Magnesium Regulates the Circadian Oscillator in Cyanobacteria. <i>Journal of Biological Rhythms</i> , 2019, 34, 380-390.	2.6	21
11	CikA Modulates the Effect of KaiA on the Period of the Circadian Oscillation in KaiC Phosphorylation. <i>Journal of Biological Rhythms</i> , 2019, 34, 218-223.	2.6	21
12	Clustering Predicted by an Electrophysiological Model of the Suprachiasmatic Nucleus. <i>Journal of Biological Rhythms</i> , 2009, 24, 322-333.	2.6	18
13	Eupnea, tachypnea, and autoresuscitation in a closed-loop respiratory control model. <i>Journal of Neurophysiology</i> , 2017, 118, 2194-2215.	1.8	18
14	Reduction and Dynamics of a Generalized Rivalry Network with Two Learned Patterns. <i>SIAM Journal on Applied Dynamical Systems</i> , 2012, 11, 1270-1309.	1.6	16
15	Daily electrical activity in the master circadian clock of a diurnal mammal. <i>ELife</i> , 2021, 10, .	6.0	16
16	Delayed Cryptochrome Degradation Asymmetrically Alters the Daily Rhythm in Suprachiasmatic Clock Neuron Excitability. <i>Journal of Neuroscience</i> , 2017, 37, 7824-7836.	3.6	12
17	Statistical significance of sequential firing patterns in multi-neuronal spike trains. <i>Journal of Neuroscience Methods</i> , 2009, 182, 279-284.	2.5	10
18	CikA, an Input Pathway Component, Senses the Oxidized Quinone Signal to Generate Phase Delays in the Cyanobacterial Circadian Clock. <i>Journal of Biological Rhythms</i> , 2020, 35, 227-234.	2.6	10

#	ARTICLE	IF	CITATIONS
19	Discovering Functional Neuronal Connectivity from Serial Patterns in Spike Train Data. <i>Neural Computation</i> , 2014, 26, 1263-1297.	2.2	6
20	Entrainment Dynamics of Forced Hierarchical Circadian Systems Revealed by 2-Dimensional Maps. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 2135-2161.	1.6	6
21	Circadian Rhythms of Early Afterdepolarizations and Ventricular Arrhythmias in a Cardiomyocyte Model. <i>Biophysical Journal</i> , 2021, 120, 319-333.	0.5	6
22	Entrainment Dynamics Organised by Global Manifolds in a Circadian Pacemaker Model. <i>Frontiers in Applied Mathematics and Statistics</i> , 2021, 7, .	1.3	6
23	The E3 ubiquitin ligase adaptor <i>Tango10</i> links the core circadian clock to neuropeptide and behavioral rhythms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	5
24	Beyond the limits of circadian entrainment: Non-24-h sleep-wake disorder, shift work, and social jet lag. <i>Journal of Theoretical Biology</i> , 2022, 545, 111148.	1.7	5
25	Spontaneous autoresuscitation in a model of respiratory control. , 2012, 2012, 6669-72.		4
26	Experimental Validation of a Closed-Loop Respiratory Control Model using Dynamic Clamp. , 2018, 2018, 5273-5276.		2
27	The emergence of polyglot entrainment responses to periodic inputs in vicinities of Hopf bifurcations in slow-fast systems. <i>Chaos</i> , 2022, 32, .	2.5	1