

Cheng Ly

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

465
citations

840728

11
h-index

752679

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g-index

37
all docs

37
docs citations

37
times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	Automaticity in ventricular myocyte cell pairs with ephaptic and gap junction coupling. <i>Chaos</i> , 2022, 32, 033123.	2.5	8
2	Statistical Analysis of Decoding Performances of Diverse Populations of Neurons. <i>Neural Computation</i> , 2021, 33, 764-801.	2.2	1
3	A Competition of Critics in Human Decision-Making. <i>Computational Psychiatry</i> , 2021, 5, 81.	2.0	2
4	Differences in olfactory bulb mitral cell spiking with ortho- and retronasal stimulation revealed by data-driven models. <i>PLoS Computational Biology</i> , 2021, 17, e1009169.	3.2	4
5	Odor-evoked increases in olfactory bulb mitral cell spiking variability. <i>IScience</i> , 2021, 24, 102946.	4.1	5
6	Efficient calculation of heterogeneous non-equilibrium statistics in coupled firing-rate models. <i>Journal of Mathematical Neuroscience</i> , 2019, 9, 2.	2.4	3
7	Development of a decerebrate model for investigating mechanisms mediating viscerosympathetic reflexes in the spinalized rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1332-H1340.	3.2	4
8	Firing rate distributions in a feedforward network of neural oscillators with intrinsic and network heterogeneity. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 2023-2048.	1.9	2
9	Variable synaptic strengths controls the firing rate distribution in feedforward neural networks. <i>Journal of Computational Neuroscience</i> , 2018, 44, 75-95.	1.0	3
10	Investigating the Correlationâ€“Firing Rate Relationship in Heterogeneous Recurrent Networks. <i>Journal of Mathematical Neuroscience</i> , 2018, 8, 8.	2.4	10
11	Analysis of heterogeneous cardiac pacemaker tissue models and traveling wave dynamics. <i>Journal of Theoretical Biology</i> , 2018, 459, 18-35.	1.7	6
12	Practical approximation method for firing-rate models of coupled neural networks with correlated inputs. <i>Physical Review E</i> , 2017, 96, 022413.	2.1	5
13	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 3. <i>BMC Neuroscience</i> , 2017, 18, .	1.9	7
14	Noise-enhanced coding in phasic neuron spike trains. <i>PLoS ONE</i> , 2017, 12, e0176963.	2.5	7
15	When do correlations increase with firing rates in recurrent networks?. <i>PLoS Computational Biology</i> , 2017, 13, e1005506.	3.2	15
16	A theoretical framework for analyzing coupled neuronal networks: Application to the olfactory system. <i>PLoS Computational Biology</i> , 2017, 13, e1005780.	3.2	12
17	Interplay of intrinsic and network heterogeneity in strongly recurrent spiking networks. <i>BMC Neuroscience</i> , 2015, 16, .	1.9	0
18	One-Dimensional Population Density Approaches to Recurrently Coupled Networks of Neurons with Noise. <i>SIAM Journal on Applied Mathematics</i> , 2015, 75, 2333-2360.	1.8	11

#	ARTICLE	IF	CITATIONS
19	Firing rate dynamics in recurrent spiking neural networks with intrinsic and network heterogeneity. <i>Journal of Computational Neuroscience</i> , 2015, 39, 311-327.	1.0	13
20	Dynamics of Coupled Noisy Neural Oscillators with Heterogeneous Phase Resetting Curves. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014, 13, 1733-1755.	1.6	6
21	A Principled Dimension-Reduction Method for the Population Density Approach to Modeling Networks of Neurons with Synaptic Dynamics. <i>Neural Computation</i> , 2013, 25, 2682-2708.	2.2	9
22	Cellular and Circuit Mechanisms Maintain Low Spike Co-Variability and Enhance Population Coding in Somatosensory Cortex. <i>Frontiers in Computational Neuroscience</i> , 2012, 6, 7.	2.1	31
23	Phase-resetting curve determines how BK currents affect neuronal firing. <i>Journal of Computational Neuroscience</i> , 2011, 30, 211-223.	1.0	21
24	Analytic approximations of statistical quantities and response of noisy oscillators. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 719-731.	2.8	12
25	Coupling regularizes individual units in noisy populations. <i>Physical Review E</i> , 2010, 81, 011911.	2.1	15
26	Analysis of Recurrent Networks of Pulse-Coupled Noisy Neural Oscillators. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010, 9, 113-137.	1.6	15
27	Divisive Gain Modulation with Dynamic Stimuli in Integrate-and-Fire Neurons. <i>PLoS Computational Biology</i> , 2009, 5, e1000365.	3.2	23
28	Synchronization dynamics of two coupled neural oscillators receiving shared and unshared noisy stimuli. <i>Journal of Computational Neuroscience</i> , 2009, 26, 425-443.	1.0	44
29	Spike Train Statistics and Dynamics with Synaptic Input from any Renewal Process: A Population Density Approach. <i>Neural Computation</i> , 2009, 21, 360-396.	2.2	33
30	Critical Analysis of Dimension Reduction by a Moment Closure Method in a Population Density Approach to Neural Network Modeling. <i>Neural Computation</i> , 2007, 19, 2032-2092.	2.2	87
31	Population density methods for stochastic neurons with realistic synaptic kinetics: Firing rate dynamics and fast computational methods. <i>Network: Computation in Neural Systems</i> , 2006, 17, 373-418.	3.6	45