Srdjan Ostojic

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5971648/publications.pdf

Version: 2024-02-01

39	2,015	361413	395702
papers	citations	20 h-index	33 g-index

53	53	53	1778
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two types of asynchronous activity in networks of excitatory and inhibitory spiking neurons. Nature Neuroscience, 2014, 17, 594-600.	14.8	260
2	Linking Connectivity, Dynamics, and Computations in Low-Rank Recurrent Neural Networks. Neuron, 2018, 99, 609-623.e29.	8.1	218
3	How Connectivity, Background Activity, and Synaptic Properties Shape the Cross-Correlation between Spike Trains. Journal of Neuroscience, 2009, 29, 10234-10253.	3.6	191
4	From Spiking Neuron Models to Linear-Nonlinear Models. PLoS Computational Biology, 2011, 7, e1001056.	3.2	184
5	Scale invariance and universality of force networks in static granular matter. Nature, 2006, 439, 828-830.	27.8	124
6	Synchronization properties of networks of electrically coupled neurons in the presence of noise and heterogeneities. Journal of Computational Neuroscience, 2009, 26, 369-392.	1.0	96
7	Interpreting neural computations by examining intrinsic and embedding dimensionality of neural activity. Current Opinion in Neurobiology, 2021, 70, 113-120.	4.2	86
8	The role of population structure in computations through neural dynamics. Nature Neuroscience, 2022, 25, 783-794.	14.8	76
9	Interspike interval distributions of spiking neurons driven by fluctuating inputs. Journal of Neurophysiology, 2011, 106, 361-373.	1.8	63
10	Go/No-Go task engagement enhances population representation of target stimuli in primary auditory cortex. Nature Communications, 2018, 9, 2529.	12.8	59
11	Neuronal Morphology Generates High-Frequency Firing Resonance. Journal of Neuroscience, 2015, 35, 7056-7068.	3.6	55
12	Dynamics of random recurrent networks with correlated low-rank structure. Physical Review Research, 2020, 2, .	3.6	54
13	A Complex-Valued Firing-Rate Model That Approximates the Dynamics of Spiking Networks. PLoS Computational Biology, 2013, 9, e1003301.	3.2	52
14	Intrinsically-generated fluctuating activity in excitatory-inhibitory networks. PLoS Computational Biology, 2017, 13, e1005498.	3.2	51
15	Natural Firing Patterns Imply Low Sensitivity of Synaptic Plasticity to Spike Timing Compared with Firing Rate. Journal of Neuroscience, 2016, 36, 11238-11258.	3.6	46
16	Correlations between synapses in pairs of neurons slow down dynamics in randomly connected neural networks. Physical Review E, 2018, 97, 062314.	2.1	41
17	Shaping Dynamics With Multiple Populations in Low-Rank Recurrent Networks. Neural Computation, 2021, 33, 1572-1615.	2.2	39
18	Patterns formed by addition of grains to only one site of an abelian sandpile. Physica A: Statistical Mechanics and Its Applications, 2003, 318, 187-199.	2.6	33

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19	Coding with transient trajectories in recurrent neural networks. PLoS Computational Biology, 2020, 16, e1007655.	3.2	32
20	Inferring and validating mechanistic models of neural microcircuits based on spike-train data. Nature Communications, 2019, 10, 4933.	12.8	30
21	Elasticity from the Force Network Ensemble in Granular Media. Physical Review Letters, 2006, 97, 208001.	7.8	28
22	Resting-State Neural Firing Rate Is Linked to Cardiac-Cycle Duration in the Human Cingulate and Parahippocampal Cortices. Journal of Neuroscience, 2019, 39, 3676-3686.	3.6	25
23	Timeâ€invariant feedâ€forward inhibition of Purkinje cells in the cerebellar cortex in vivo. Journal of Physiology, 2016, 594, 2729-2749.	2.9	24
24	Contrasting the effects of adaptation and synaptic filtering on the timescales of dynamics in recurrent networks. PLoS Computational Biology, 2019, 15, e1006893.	3.2	21
25	Dissociating task acquisition from expression during learning reveals latent knowledge. Nature Communications, 2019, 10, 2151.	12.8	20
26	Network dynamics underlying OFF responses in the auditory cortex. ELife, 2021, 10, .	6.0	17
27	Temporal chunking as a mechanism for unsupervised learning of task-sets. ELife, 2020, 9, .	6.0	14
28	Synaptic encoding of temporal contiguity. Frontiers in Computational Neuroscience, 2013, 7, 32.	2.1	12
29	A Geometrical Analysis of Global Stability in Trained Feedback Networks. Neural Computation, 2019, 31, 1139-1182.	2.2	11
30	Instability to a heterogeneous oscillatory state in randomly connected recurrent networks with delayed interactions. Physical Review E, 2016, 94, 062207.	2.1	7
31	Response of a hexagonal granular packing under a localized external force: exact results. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P01011.	2.3	4
32	More than the Sum of its Parts: Perception and Neuronal Underpinnings of Sequence Processing. Neuroscience, 2018, 389, 1-3.	2.3	3
33	Curating more diverse scientific conferences. Nature Reviews Neuroscience, 2020, 21, 589-590.	10.2	3
34	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0
35	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0
36	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0

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37	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0
38	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0
39	Coding with transient trajectories in recurrent neural networks. , 2020, 16, e1007655.		0