Alireza Valizadeh

List of Publications by Year
in descending order

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47 papers	802 citations	623734 14 h-index	610901 24 g-index
53 all docs	53 docs citations	53 times ranked	656 citing authors

#	Article	IF	Citations
1	25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54.	1.9	81
2	Effect of duration of synaptic activity on spike rate of a Hodgkin-Huxley neuron with delayed feedback. Physical Review E, 2012, 85, 021917.	2.1	73
3	Transmission delays and frequency detuning can regulate information flow between brain regions. PLoS Computational Biology, 2021, 17, e1008129.	3.2	69
4	Dendritic and Axonal Propagation Delays Determine Emergent Structures of Neuronal Networks with Plastic Synapses. Scientific Reports, 2017, 7, 39682.	3.3	48
5	Dendritic and Axonal Propagation Delays May Shape Neuronal Networks With Plastic Synapses. Frontiers in Physiology, 2018, 9, 1849.	2.8	44
6	Stimulus-dependent synchronization in delayed-coupled neuronal networks. Scientific Reports, 2016, 6, 23471.	3.3	40
7	Delay-Induced Multistability and Loop Formation in Neuronal Networks with Spike-Timing-Dependent Plasticity. Scientific Reports, 2018, 8, 12068.	3.3	40
8	Synchronization of delayed coupled neurons in presence of inhomogeneity. Journal of Computational Neuroscience, 2014, 36, 55-66.	1.0	35
9	High frequency neurons determine effective connectivity in neuronal networks. NeuroImage, 2018, 166, 349-359.	4.2	29
10	Propagation delays determine neuronal activity and synaptic connectivity patterns emerging in plastic neuronal networks. Chaos, 2018, 28, 106308.	2.5	28
11	Effect of synaptic plasticity on the structure and dynamics of disordered networks of coupled neurons. Physical Review E, 2012, 86, 011925.	2.1	24
12	Dopaminergic Modulation of Synaptic Plasticity, Its Role in Neuropsychiatric Disorders, and Its Computational Modeling. Basic and Clinical Neuroscience, 2019, 10, 1-12.	0.6	24
13	Self-organization of synchronous activity propagation in neuronal networks driven by local excitation. Frontiers in Computational Neuroscience, 2015, 9, 69.	2.1	23
14	Zero-Lag Synchronization Despite Inhomogeneities in a Relay System. PLoS ONE, 2014, 9, e112688.	2.5	19
15	Synchronization of oscillators through time-shifted common inputs. Physical Review E, 2017, 95, 032207.	2.1	19
16	Refractory period in network models of excitable nodes: self-sustaining stable dynamics, extended scaling region and oscillatory behavior. Scientific Reports, 2017, 7, 7107.	3.3	19
17	Facilitating the propagation of spiking activity in feedforward networks by including feedback. PLoS Computational Biology, 2020, 16, e1008033.	3.2	18
18	Spike-Timing-Dependent Plasticity Mediated by Dopamine and its Role in Parkinsonâ€™s Disease Pathophysiology. Frontiers in Network Physiology, 2022, 2, .	1.8	18

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19	Frequency-dependent organization of the brainâ€™s functional network through delayed-interactions. Neural Networks, 2020, 132, 155-165.	5.9	16
20	Inhibitory Spike-Timing-Dependent Plasticity Can Account for Pathological Strengthening of Pallido-Subthalamic Synapses in Parkinsonâ€™s Disease. Frontiers in Physiology, 2022, 13, .	2.8	14
21	Smoothed particle hydrodynamics simulations of turbulence in fixed and rotating boxes in two dimensions with no-slip boundaries. Physics of Fluids, 2012, 24, 035107.	4.0	12
22	On the Origin of Fractional Shapiro Steps in Systems of Josephson Junctions with Few Degrees of Freedom. Journal of Nonlinear Mathematical Physics, 2008, 15, 407.	1.3	11
23	Single phase-slip junction site can synchronize a parallel superconducting array of linearly coupled Josephson junctions. Physical Review B, 2010, 82, .	3.2	11
24	The Origin of Abnormal Beta Oscillations in the Parkinsonian Corticobasal Ganglia Circuits. Parkinson's Disease, 2022, 2022, 1-13.	1.1	11
25	Robustness of functional networks at criticality against structural defects. Physical Review E, 2018, 98, 022312.	2.1	10
26	Direct connections assist neurons to detect correlation in small amplitude noises. Frontiers in Computational Neuroscience, 2013, 7, 108.	2.1	7
27	Coexistence of scale-invariant and rhythmic behavior in self-organized criticality. Physical Review E, 2018, 98, 022304.	2.1	7
28	Rectified motion of a Bose-Einstein condensate in a horizontally vibrating shallow optical lattice. Physical Review A, 2011, 83, .	2.5	6
29	Stabilizing synchrony by inhomogeneity. Scientific Reports, 2015, 5, 13854.	3.3	6
30	Excitatory deep brain stimulation quenches beta oscillations arising in a computational model of the subthalamo-pallidal loop. Scientific Reports, 2022, 12, 7845.	3.3	6
31	Fractional Shapiro steps in a triangular single-plaquette Josephson-junction array. Physical Review B, 2007, 76, .	3.2	5
32	Role of Interaction Delays in the Synchronization of Inhibitory Networks. Neural Computation, 2022, 34, 1425-1447.	2.2	5
33	Frequency-Resolved Functional Connectivity: Role of Delay and the Strength of Connections. Frontiers in Neural Circuits, 2021, 15, 608655.	2.8	4
34	Dynamics of a Bose-Einstein condensate in a horizontally vibrating shallow optical lattice. Physical Review A, 2010, 81, .	2.5	3
35	Enhanced response of regular networks to local signals in the presence of a fast impurity. Physical Review E, 2012, 86, 016101.	2.1	3
36	Functional scale-free networks in the two-dimensional Abelian sandpile model. Physical Review E, 2015, 92, 012822.	2.1	3

#	Article	IF	Citations
37	Rotating Boseâ€“Einstein condensate in an optical lattice: Formulation of vortex configuration for the ground state. Physica B: Condensed Matter, 2011, 406, 1017-1021.	2.7	2
38	The Effect of Translation on Text Coherence: A Quantitative Study. Journal of Quantitative Linguistics, 2022, 29, 151-164.	1.2	1
39	Information Transmission in Delay-Coupled Neuronal Circuits in the Presence of a Relay Population. Frontiers in Systems Neuroscience, 2021, 15, 705371.	2.5	1
40	Transient synchrony in delayed coupled neuronal networks. BMC Neuroscience, 2015, 16, .	1.9	0
41	Stabilizing synchrony with heterogeneity. BMC Neuroscience, 2015, 16, .	1.9	0
42	Are all the word ranking methods the same?. International Journal of Modern Physics C, 0, , 2150144.	1.7	0
43	Dynamic modeling of major depressive disorder: Calculating the rate of occurrence and recurrence. Advances in Cognitive Science, 2020, 21, 33-45.	0.1	0
44	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
45	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
46	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
47	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0