

# Matteo Di Volo

## List of Publications by Year in descending order

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24  
papers

460  
citations

759233

12  
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839539

18  
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docs citations

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times ranked

371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biologically Realistic Mean-Field Models of Conductance-Based Networks of Spiking Neurons with Adaptation. <i>Neural Computation</i> , 2019, 31, 653-680.	2.2	64
2	Transition from Asynchronous to Oscillatory Dynamics in Balanced Spiking Networks with Instantaneous Synapses. <i>Physical Review Letters</i> , 2018, 121, 128301.	7.8	55
3	Suppressive Traveling Waves Shape Representations of Illusory Motion in Primary Visual Cortex of Awake Primate. <i>Journal of Neuroscience</i> , 2019, 39, 4282-4298.	3.6	36
4	Cholinergic Switch between Two Types of Slow Waves in Cerebral Cortex. <i>Cerebral Cortex</i> , 2020, 30, 3451-3466.	2.9	32
5	Bridging Single Neuron Dynamics to Global Brain States. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 75.	2.5	28
6	Coexistence of fast and slow gamma oscillations in one population of inhibitory spiking neurons. <i>Physical Review Research</i> , 2020, 2, .	3.6	27
7	Reduction Methodology for Fluctuation Driven Population Dynamics. <i>Physical Review Letters</i> , 2021, 127, 038301.	7.8	25
8	Average synaptic activity and neural networks topology: a global inverse problem. <i>Scientific Reports</i> , 2014, 4, 4336.	3.3	21
9	Synchronous dynamics in the presence of short-term plasticity. <i>Physical Review E</i> , 2013, 87, .	2.1	18
10	Heterogeneous mean field for neural networks with short-term plasticity. <i>Physical Review E</i> , 2014, 90, 022811.	2.1	15
11	Dynamical ventral tegmental area circuit mechanisms of alcoholâ€dependent dopamine release. <i>European Journal of Neuroscience</i> , 2019, 50, 2282-2296.	2.6	15
12	Contribution of synchronized GABAergic neurons to dopaminergic neuron firing and bursting. <i>Journal of Neurophysiology</i> , 2016, 116, 1900-1923.	1.8	14
13	Chaos and Correlated Avalanches in Excitatory Neural Networks with Synaptic Plasticity. <i>Physical Review Letters</i> , 2017, 118, 098102.	7.8	14
14	Coherent oscillations in balanced neural networks driven by endogenous fluctuations. <i>Chaos</i> , 2022, 32, 023120.	2.5	14
15	Synchronization and long-time memory in neural networks with inhibitory hubs and synaptic plasticity. <i>Physical Review E</i> , 2017, 95, 012308.	2.1	13
16	Optimal responsiveness and information flow in networks of heterogeneous neurons. <i>Scientific Reports</i> , 2021, 11, 17611.	3.3	12
17	Asynchronous and Coherent Dynamics in Balanced Excitatory-Inhibitory Spiking Networks. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 752261.	2.5	11
18	Microscopic mechanism for self-organized quasiperiodicity in random networks of nonlinear oscillators. <i>Physical Review E</i> , 2014, 90, 042918.	2.1	10

#	ARTICLE	IF	CITATIONS
19	State-dependent mean-field formalism to model different activity states in conductance-based networks of spiking neurons. <i>Physical Review E</i> , 2019, 100, 062413.	2.1	9
20	Neural networks with excitatory and inhibitory components: Direct and inverse problems by a mean-field approach. <i>Physical Review E</i> , 2016, 93, 012305.	2.1	8
21	Inferring network structure and local dynamics from neuronal patterns with quenched disorder. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110235.	5.1	5
22	The influence of noise on synchronous dynamics in a diluted neural network. <i>Chaos, Solitons and Fractals</i> , 2013, 57, 54-61.	5.1	4
23	Order symmetry breaking and broad distribution of events in spiking neural networks with continuous membrane potential. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110946.	5.1	2
24	Cortical propagating waves: amplifying and suppressive?. <i>Journal of Computational Neuroscience</i> , 2021, 49, 371-373.	1.0	0