## Tom Tetzlaff

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modeling the Spatial Reach of the LFP. Neuron, 2011, 72, 859-872.	8.1	393
2	Decorrelation of Neural-Network Activity by Inhibitory Feedback. PLoS Computational Biology, 2012, 8, e1002596.	3.2	159
3	Frequency Dependence of Signal Power and Spatial Reach of the Local Field Potential. PLoS Computational Biology, 2013, 9, e1003137.	3.2	133
4	Correlations and Population Dynamics in Cortical Networks. Neural Computation, 2008, 20, 2185-2226.	2.2	99
5	The Correlation Structure of Local Neuronal Networks Intrinsically Results from Recurrent Dynamics. PLoS Computational Biology, 2014, 10, e1003428.	3.2	91
6	Hybrid Scheme for Modeling Local Field Potentials from Point-Neuron Networks. Cerebral Cortex, 2016, 26, 4461-4496.	2.9	89
7	Dependence of Neuronal Correlations on Filter Characteristics and Marginal Spike Train Statistics. Neural Computation, 2008, 20, 2133-2184.	2.2	69
8	A unified view on weakly correlated recurrent networks. Frontiers in Computational Neuroscience, 2013, 7, 131.	2.1	61
9	Dynamical Response Properties of Neocortical Neuron Ensembles: Multiplicative versus Additive Noise. Journal of Neuroscience, 2009, 29, 1006-1010.	3.6	56
10	Echoes in correlated neural systems. New Journal of Physics, 2013, 15, 023002.	2.9	42
11	Dynamics of self-sustained asynchronous-irregular activity in random networks of spiking neurons with strong synapses. Frontiers in Computational Neuroscience, 2014, 8, 136.	2.1	38
12	Power Laws from Linear Neuronal Cable Theory: Power Spectral Densities of the Soma Potential, Soma Membrane Current and Single-Neuron Contribution to the EEG. PLoS Computational Biology, 2014, 10, e1003928.	3.2	38
13	The variability of tidewater-glacier calving: Origin of event-size and interval distributions. Journal of Glaciology, 2014, 60, 622-634.	2.2	27
14	The spread of rate and correlation in stationary cortical networks. Neurocomputing, 2003, 52-54, 949-954.	5.9	24
15	The ground state of cortical feed-forward networks. Neurocomputing, 2002, 44-46, 673-678.	5.9	21
16	Rate dynamics of leaky integrate-and-fire neurons with strong synapses. Frontiers in Computational Neuroscience, 2010, 4, 149.	2.1	20
17	Firing-rate models capture essential response dynamics of LGN relay cells. Journal of Computational Neuroscience, 2013, 35, 359-375.	1.0	16
18	Effect of Heterogeneity on Decorrelation Mechanisms in Spiking Neural Networks: A Neuromorphic-Hardware Study. Physical Review X, 2016, 6, .	8.9	15

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19	Conditions for wave trains in spiking neural networks. Physical Review Research, 2020, 2, .	3.6	15
20	Homologous Basal Ganglia Network Models in Physiological and Parkinsonian Conditions. Frontiers in Computational Neuroscience, 2017, 11, 79.	2.1	14
21	Firing-rate models for neurons with a broad repertoire of spiking behaviors. Journal of Computational Neuroscience, 2018, 45, 103-132.	1.0	13
22	Consequences of realistic network size on the stability of embedded synfire chains. Neurocomputing, 2004, 58-60, 117-121.	5.9	11
23	Deterministic networks for probabilistic computing. Scientific Reports, 2019, 9, 18303.	3.3	10
24	Firing rate homeostasis counteracts changes in stability of recurrent neural networks caused by synapse loss in Alzheimer's disease. PLoS Computational Biology, 2020, 16, e1007790.	3.2	10
25	Sequence learning, prediction, and replay in networks of spiking neurons. PLoS Computational Biology, 2022, 18, e1010233.	3.2	8
26	Hybrid scheme for modeling local field potentials from point-neuron networks. BMC Neuroscience, 2015, 16, .	1.9	7
27	Invariance of covariances arises out of noise. , 2013, , .		5
28	Synchronization and rate dynamics in embedded synfire chains: effect of network heterogeneity and feedback. BMC Neuroscience, 2009, 10, .	1.9	4
29	Decorrelation of low-frequency neural activity by inhibitory feedback. BMC Neuroscience, 2010, 11, .	1.9	4
30	Stability of bumps in a two-population neural-field model with quasi-power temporal kernels. Nonlinear Analysis: Real World Applications, 2011, 12, 3073-3094.	1.7	4
31	Effect of localized input on bump solutions in a two-population neural-field model. Nonlinear Analysis: Real World Applications, 2013, 14, 997-1025.	1.7	4
32	Dynamical Characteristics of Recurrent Neuronal Networks Are Robust Against Low Synaptic Weight Resolution. Frontiers in Neuroscience, 2021, 15, 757790.	2.8	4
33	Neurons hear their echo. BMC Neuroscience, 2010, 11, .	1.9	2
34	Deterministic neural networks as sources of uncorrelated noise for probabilistic computations. BMC Neuroscience, 2015, 16, .	1.9	2
35	Dependence of Spike-Count Correlations on Spike-Train Statistics and Observation TimeÂScale. , 2010, , 103-127.		1
36	Firing-rate models for neurons with a broad repertoire of spiking behaviors. BMC Neuroscience, 2013, 14, .	1.9	1

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#	Article	IF	CITATIONS
37	Self-feedback shapes correlation functions. Neuroscience Research, 2010, 68, e106.	1.9	0
38	Estimating the spatial scale of local field potentials in a cortical population model. Neuroscience Research, 2010, 68, e212-e213.	1.9	0
39	Dynamics of self-sustained activity in random networks with strong synapses. BMC Neuroscience, 2011, 12, .	1.9	0
40	Rate dynamics of the retina-LGN connection. BMC Neuroscience, 2011, 12, .	1.9	0
41	Simplified model of the frequency dependence of the LFP $\hat{a} \in \mathbb{M}$ s spatial reach. BMC Neuroscience, 2012, 13, .	1.9	0
42	Recurrence and external sources differentially shape network correlations. BMC Neuroscience, 2013, 14, .	1.9	0
43	Hybrid scheme for modeling LFPs from spiking cortical network models. BMC Neuroscience, 2013, 14, .	1.9	0
44	A Model of Spatial Reach in LFP Recordings. Springer Series in Computational Neuroscience, 2018, , 509-533.	0.3	0
45	The speed of sequence processing in biological neuronal networks. , 2020, , .		0
46	Sequence learning in a memristive crossbar array. , 0, , .		0

Sequence learning in a memristive crossbar array. , 0, , . 46