## Ad Aertsen

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Feed-forward and noise-tolerant detection of feature homogeneity in spiking networks with a latency code. Biological Cybernetics, 2021, 115, 161-176.	0.6	0
2	Insights into hippocampal network function. Nature Computational Science, 2021, 1, 782-783.	3.8	1
3	Differential Coding Strategies in Glutamatergic and GABAergic Neurons in the Medial Cerebellar Nucleus. Journal of Neuroscience, 2020, 40, 159-170.	1.7	26
4	Facilitating the propagation of spiking activity in feedforward networks by including feedback. PLoS Computational Biology, 2020, 16, e1008033.	1.5	18
5	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
6	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
7	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
8	Facilitating the propagation of spiking activity in feedforward networks by including feedback. , 2020, 16, e1008033.		0
9	From space to time: Spatial inhomogeneities lead to the emergence of spatiotemporal sequences in spiking neuronal networks. PLoS Computational Biology, 2019, 15, e1007432.	1.5	20
10	Direct pathway neurons in mouse dorsolateral striatum in vivo receive stronger synaptic input than indirect pathway neurons. Journal of Neurophysiology, 2019, 122, 2294-2303.	0.9	14
11	Portraits of communication in neuronal networks. Nature Reviews Neuroscience, 2019, 20, 117-127.	4.9	126
12	Title is missing!. , 2019, 15, e1007432.		0
13	Title is missing!. , 2019, 15, e1007432.		0
14	Title is missing!. , 2019, 15, e1007432.		0
15	Title is missing!. , 2019, 15, e1007432.		0
16	Hyperactivity of Anterior Cingulate Cortex Areas 24a/24b Drives Chronic Pain-Induced Anxiodepressive-like Consequences. Journal of Neuroscience, 2018, 38, 3102-3115.	1.7	158
17	Real-life speech production and perception have a shared premotor-cortical substrate. Scientific Reports, 2018, 8, 8898.	1.6	30
18	Sensorimotor Processing in the Basal Ganglia Leads to Transient Beta Oscillations during Behavior. Journal of Neuroscience, 2017, 37, 11220-11232.	1.7	40

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19	Neurolinguistic and machine-learning perspectives on direct speech BCIs for restoration of naturalistic communication. Brain-Computer Interfaces, 2017, 4, 186-199.	0.9	23
20	Activity Dynamics and Signal Representation in a Striatal Network Model with Distance-Dependent Connectivity. ENeuro, 2017, 4, ENEURO.0348-16.2017.	0.9	15
21	Dynamical state of the network determines the efficacy of single neuron properties in shaping the network activity. Scientific Reports, 2016, 6, 26029.	1.6	22
22	Predominance of Movement Speed Over Direction in Neuronal Population Signals of Motor Cortex: Intracranial EEG Data and A Simple Explanatory Model. Cerebral Cortex, 2016, 26, 2863-2881.	1.6	40
23	Recovery of Dynamics and Function in Spiking Neural Networks with Closed-Loop Control. PLoS Computational Biology, 2016, 12, e1004720.	1.5	10
24	Effect of edge pruning on structural controllability and observability of complex networks. Scientific Reports, 2015, 5, 18145.	1.6	21
25	Role of Input Correlations in Shaping the Variability and Noise Correlations of Evoked Activity in the Neocortex. Journal of Neuroscience, 2015, 35, 8611-8625.	1.7	25
26	Physiology and Impact of Horizontal Connections in Rat Neocortex. Cerebral Cortex, 2015, 25, 3818-3835.	1.6	46
27	Existence and Control of Go/No-Go Decision Transition Threshold in the Striatum. PLoS Computational Biology, 2015, 11, e1004233.	1.5	42
28	From speech to thought: the neuronal basis of cognitive units in non-experimental, real-life communication investigated using ECoG. Frontiers in Human Neuroscience, 2014, 8, 383.	1.0	18
29	Communication through Resonance in Spiking Neuronal Networks. PLoS Computational Biology, 2014, 10, e1003811.	1.5	78
30	Heart cycle-related effects on event-related potentials, spectral power changes, and connectivity patterns in the human ECoG. NeuroImage, 2013, 81, 178-190.	2.1	109
31	Somatotopic mapping of natural upper- and lower-extremity movements and speech production with high gamma electrocorticography. NeuroImage, 2013, 81, 164-177.	2.1	43
32	Neural system prediction and identification challenge. Frontiers in Neuroinformatics, 2013, 7, 43.	1.3	6
33	Beyond Statistical Significance: Implications of Network Structure on Neuronal Activity. PLoS Computational Biology, 2012, 8, e1002311.	1.5	23
34	Measuring epileptogenicity in kainic acid injected rats. , 2011, , .		4
35	Stereotypical spatiotemporal activity patterns during slow-wave activity in the neocortex. Journal of Neurophysiology, 2011, 106, 3035-3044.	0.9	16
36	Beyond the cortical column: abundance and physiology of horizontal connections imply a strong role for inputs from the surround. Frontiers in Neuroscience, 2011, 5, 32.	1.4	92

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37	The Role of Inhibition in Generating and Controlling Parkinson?s Disease Oscillations in the Basal Ganglia. Frontiers in Systems Neuroscience, 2011, 5, 86.	1.2	116
38	Significance of Input Correlations in Striatal Function. PLoS Computational Biology, 2011, 7, e1002254.	1.5	34
39	Functional consequences of correlated excitatory and inhibitory conductances in cortical networks. Journal of Computational Neuroscience, 2010, 28, 579-594.	0.6	71
40	Spiking activity propagation in neuronal networks: reconciling different perspectives on neural coding. Nature Reviews Neuroscience, 2010, 11, 615-627.	4.9	395
41	Gating of Signal Propagation in Spiking Neural Networks by Balanced and Correlated Excitation and Inhibition. Journal of Neuroscience, 2010, 30, 15760-15768.	1.7	109
42	The High-Conductance State of Cortical Networks. Neural Computation, 2008, 20, 1-43.	1.3	180
43	Conditions for Propagating Synchronous Spiking and Asynchronous Firing Rates in a Cortical Network Model. Journal of Neuroscience, 2008, 28, 5268-5280.	1.7	182
44	Synaptic Integration in Rat Frontal Cortex Shaped by Network Activity. Journal of Neurophysiology, 2005, 93, 281-293.	0.9	100
45	Neuronal Integration of Synaptic Input in the Fluctuation-Driven Regime. Journal of Neuroscience, 2004, 24, 2345-2356.	1.7	178
46	Activity dynamics and propagation of synchronous spiking in locally connected random networks. Biological Cybernetics, 2003, 88, 395-408.	0.6	149
47	Propagation of cortical synfire activity: survival probability in single trials and stability in the mean. Neural Networks, 2001, 14, 657-673.	3.3	79
48	Stable propagation of synchronous spiking in cortical neural networks. Nature, 1999, 402, 529-533.	13.7	889