List of Publications by Year in descending order

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AIREDT COMDTE

#	Article	IF	CITATIONS
1	Cellular and Network Mechanisms of Slow Oscillatory Activity (<1 Hz) and Wave Propagations in a Cortical Network Model. Journal of Neurophysiology, 2003, 89, 2707-2725.	0.9	486
2	Theory of the electrochemical impedance of anomalous diffusion. Journal of Electroanalytical Chemistry, 2001, 499, 112-120.	1.9	408
3	Bump attractor dynamics in prefrontal cortex explains behavioral precision in spatial working memory. Nature Neuroscience, 2014, 17, 431-439.	7.1	352
4	The generalized Cattaneo equation for the description of anomalous transport processes. Journal of Physics A, 1997, 30, 7277-7289.	1.6	326
5	Mechanism for top-down control of working memory capacity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6802-6807.	3.3	305
6	Stochastic foundations of fractional dynamics. Physical Review E, 1996, 53, 4191-4193.	0.8	262
7	Temporally Irregular Mnemonic Persistent Activity in Prefrontal Neurons of Monkeys During a Delayed Response Task. Journal of Neurophysiology, 2003, 90, 3441-3454.	0.9	235
8	Anomalous transport effects in the impedance of porous film electrodes. Electrochemistry Communications, 1999, 1, 429-435.	2.3	195
9	Inhibitory Modulation of Cortical Up States. Journal of Neurophysiology, 2010, 104, 1314-1324.	0.9	164
10	Interplay between persistent activity and activity-silent dynamics in the prefrontal cortex underlies serial biases in working memory. Nature Neuroscience, 2020, 23, 1016-1024.	7.1	154
11	Non-equilibrium thermodynamics and anomalous diffusion. Journal of Physics A, 1996, 29, 4321-4329.	1.6	150
12	Bistable, Irregular Firing and Population Oscillations in a Modular Attractor Memory Network. PLoS Computational Biology, 2010, 6, e1000803.	1.5	149
13	Sensory integration dynamics in a hierarchical network explains choice probabilities in cortical area MT. Nature Communications, 2015, 6, 6177.	5.8	145
14	The dynamical stability of reverberatory neural circuits. Biological Cybernetics, 2002, 87, 471-481.	0.6	130
15	Spontaneous High-Frequency (10–80 Hz) Oscillations during Up States in the Cerebral Cortex <i>In Vitro</i> . Journal of Neuroscience, 2008, 28, 13828-13844.	1.7	122
16	UP-DOWN cortical dynamics reflect state transitions in a bistable network. ELife, 2017, 6, .	2.8	114
17	An Integrated Microcircuit Model of Attentional Processing in the Neocortex. Journal of Neuroscience, 2007, 27, 8486-8495.	1.7	103
18	Temperature Modulation of Slow and Fast Cortical Rhythms. Journal of Neurophysiology, 2010, 103, 1253-1261.	0.9	85

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19	Computational and in vitro studies of persistent activity: Edging towards cellular and synaptic mechanisms of working memory. Neuroscience, 2006, 139, 135-151.	1.1	79
20	Continuous time random walks on moving fluids. Physical Review E, 1997, 55, 6821-6831.	0.8	69
21	Reconciling Coherent Oscillation with Modulationof Irregular Spiking Activity in Selective Attention:Gamma-Range Synchronization between Sensoryand Executive Cortical Areas. Journal of Neuroscience, 2010, 30, 2856-2870.	1.7	66
22	Neural circuit basis of visuo-spatial working memory precision: a computational and behavioral study. Journal of Neurophysiology, 2015, 114, 1806-1818.	0.9	65
23	Tuning Curve Shift by Attention Modulation in Cortical Neurons: a Computational Study of its Mechanisms. Cerebral Cortex, 2006, 16, 761-778.	1.6	60
24	Fractional Dynamics in Random Velocity Fields. Physical Review Letters, 1998, 81, 3140-3143.	2.9	51
25	Anomalous diffusion in linear shear flows. Journal of Physics A, 1997, 30, 1023-1030.	1.6	50
26	Generalized Diffusionâ^'Advection Schemes and Dispersive Sedimentation: A Fractional Approachâ€. Journal of Physical Chemistry B, 2000, 104, 3858-3865.	1.2	48
27	Neural Integrator Models. , 2009, , 165-178.		47
28	Transitions between Multiband Oscillatory Patterns Characterize Memory-Guided Perceptual Decisions in Prefrontal Circuits. Journal of Neuroscience, 2016, 36, 489-505.	1.7	47
29	Sleep disorders in anti-NMDAR encephalitis. Neurology, 2020, 95, e671-e684.	1.5	47
30	Serotonin Regulates Performance Nonmonotonically in a Spatial Working Memory Network. Cerebral Cortex, 2014, 24, 2449-2463.	1.6	44
31	Integrated Mechanisms of Anticipation and Rate-of-Change Computations in Cortical Circuits. PLoS Computational Biology, 2007, 3, e82.	1.5	42
32	Computational disease modeling – fact or fiction?. BMC Systems Biology, 2009, 3, 56.	3.0	41
33	A Computational Model of Major Depression: the Role of Glutamate Dysfunction on Cingulo-Frontal Network Dynamics. Cerebral Cortex, 2017, 27, bhv249.	1.6	40
34	Stochastic foundation of normal and anomalous Cattaneo-type transport. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 454-468.	1.2	39
35	Reduced serial dependence suggests deficits in synaptic potentiation in anti-NMDAR encephalitis and schizophrenia. Nature Communications, 2020, 11, 4250.	5.8	38
36	Rhythmic Spontaneous Activity in the Piriform Cortex. Cerebral Cortex, 2008, 18, 1179-1192.	1.6	36

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37	Biased continuous time random walks between parallel plates. Physical Review E, 1997, 56, 1445-1454.	0.8	33
38	Workflow for generating competing hypothesis from models with parameter uncertainty. Interface Focus, 2011, 1, 438-449.	1.5	33
39	Subgenual anterior cingulate cortex controls sadness-induced modulations of cognitive and emotional network hubs. Scientific Reports, 2018, 8, 8566.	1.6	30
40	Build-up of serial dependence in color working memory. Scientific Reports, 2020, 10, 10959.	1.6	27
41	Temporal Properties of Posterior Parietal Neuron Discharges During Working Memory and Passive Viewing. Journal of Neurophysiology, 2007, 97, 2254-2266.	0.9	26
42	Wavefronts in bistable hyperbolic reaction–diffusion systems. Physica A: Statistical Mechanics and Its Applications, 1998, 260, 90-98.	1.2	22
43	A Computational Model for Spatial Working Memory Deficits in Schizophrenia. Pharmacopsychiatry, 2012, 45, S49-S56.	1.7	22
44	Serotonergic modulation of spatial working memory: predictions from a computational network model. Frontiers in Integrative Neuroscience, 2013, 7, 71.	1.0	21
45	Pinging the brain with visual impulses reveals electrically active, not activity-silent, working memories. PLoS Biology, 2021, 19, e3001436.	2.6	20
46	Stimulus Dependence of Barrel Cortex Directional Selectivity. PLoS ONE, 2006, 1, e137.	1.1	19
47	Selective detection of abrupt input changes by integration of spike-frequency adaptation and synaptic depression in a computational network model. Journal of Physiology (Paris), 2006, 100, 1-15.	2.1	19
48	Trade-off between Capacity and Precision in Visuospatial Working Memory. Journal of Cognitive Neuroscience, 2014, 26, 211-222.	1.1	19
49	Localization in one-dimensional random random walks. Journal of Physics A, 1998, 31, 6113-6121.	1.6	18
50	Oscillations in the bistable regime of neuronal networks. Physical Review E, 2016, 94, 012410.	0.8	18
51	Nucleus basalis stimulation enhances working memory by stabilizing stimulus representations in primate prefrontal cortical activity. Cell Reports, 2021, 36, 109469.	2.9	12
52	Towards biologically constrained attractor models of schizophrenia. Current Opinion in Neurobiology, 2021, 70, 171-181.	2.0	11
53	Spatial Suppression and Sensitivity for Motion in Schizophrenia. Schizophrenia Bulletin Open, 2020, 1, .	0.9	9
54	StimuliApp: Psychophysical tests on mobile devices. Behavior Research Methods, 2021, 53, 1301-1307.	2.3	7

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55	Validation of motion perception of briefly displayed images using a tablet. Scientific Reports, 2018, 8, 16056.	1.6	6
56	Lévy statistics in Taylor dispersion. Physical Review E, 1997, 56, 5445-5449.	0.8	5
57	The EASI model: A first integrative computational approximation to the natural history of COPD. PLoS ONE, 2017, 12, e0185502.	1.1	4
58	Serotonergic Modulation of Cognition in Prefrontal Cortical Circuits in Major Depression. , 2018, , 27-46.		4
59	Across-Area Synchronization Supports Feature Integration in a Biophysical Network Model of Working Memory. Frontiers in Neural Circuits, 2021, 15, 716965.	1.4	4
60	Structural Statistical Properties of the Connectivity Could Underlie the Difference in Activity Propagation Velocities in Visual and Olfactory Cortices. Lecture Notes in Computer Science, 2005, , 133-142.	1.0	2
61	Irregularity of emergent network activity in the local circuit. BMC Neuroscience, 2009, 10, .	0.8	0
62	A computational and behavioral study of the precision of visuo-spatial working-memory for several items. BMC Neuroscience, 2011, 12, .	0.8	0
63	A biophysical neural network model for visual working memory that accounts for memory binding errors. BMC Neuroscience, 2015, 16, .	0.8	Ο
64	Integrated Mechanisms of Anticipation and Rate-of-Change Computations in Cortical Circuits. PLoS Computational Biology, 2005, preprint, e82.	1.5	0
65	Slow Oscillations: Models. , 2014, , 1-4.		Ο
66	Slow Oscillations: Models. , 2015, , 2720-2723.		0
67	Slow Oscillations: Models. , 2022, , 3147-3150.		Ο