Terrence J Sejnowski

List of Publications by Citations

182 papers	**27,498** citations	**59** h-index	**165** g-index
211 ext. papers	**32,926** ext. citations	**9.2** avg, IF	**7.34** L-index

#	Paper	IF	Citations
182	An information-maximization approach to blind separation and blind deconvolution. *Neural Computation*, **1995**, 7, 1129-59	2.9	5872
181	Removing electroencephalographic artifacts by blind source separation. *Psychophysiology*, **2000**, 37, 163-178	4.1	2074
180	A Learning Algorithm for Boltzmann Machines*. *Cognitive Science*, **1985**, 9, 147-169	2.2	1807
179	Analysis of fMRI data by blind separation into independent spatial components. *Human Brain Mapping*, **1998**, 6, 160-88	5.9	1334
178	Independent component analysis using an extended infomax algorithm for mixed subgaussian and supergaussian sources. *Neural Computation*, **1999**, 11, 417-41	2.9	1236
177	Influence of dendritic structure on firing pattern in model neocortical neurons. *Nature*, **1996**, 382, 363-6	50.4	1014
176	Correlated neuronal activity and the flow of neural information. *Nature Reviews Neuroscience*, **2001**, 2, 539-50	13.5	957
175	The neural basis of cognitive development: a constructivist manifesto. *Behavioral and Brain Sciences*, **1997**, 20, 537-56; discussion 556-96	0.9	845
174	Learning overcomplete representations. *Neural Computation*, **2000**, 12, 337-65	2.9	723
173	Communication in neuronal networks. *Science*, **2003**, 301, 1870-4	33.3	655
172	Neurocomputational models of working memory. *Nature Neuroscience*, **2000**, 3 Suppl, 1184-91	25.5	553
171	Removing electroencephalographic artifacts by blind source separation **2000**, 37, 163		489
170	Interpreting neuronal population activity by reconstruction: unified framework with application to hippocampal place cells. *Journal of Neurophysiology*, **1998**, 79, 1017-44	3.2	462
169	Human body epigenome maps reveal noncanonical DNA methylation variation. *Nature*, **2015**, 523, 212-6	50.4	442
168	Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. *Neuron*, **2015**, 86, 1369-84	13.9	430
167	Why do we sleep?. *Brain Research*, **2000**, 886, 208-223	3.7	380
166	Independent component analysis of fMRI data: examining the assumptions. *Human Brain Mapping*, **1998**, 6, 368-72	5.9	355

165	Spatial transformations in the parietal cortex using basis functions. *Journal of Cognitive Neuroscience*, **1997**, 9, 222-37	3.1	338
164	Single-cell methylomes identify neuronal subtypes and regulatory elements in mammalian cortex. *Science*, **2017**, 357, 600-604	33.3	279
163	Regulation of spike timing in visual cortical circuits. *Nature Reviews Neuroscience*, **2008**, 9, 97-107	13.5	266
162	Bee foraging in uncertain environments using predictive hebbian learning. *Nature*, **1995**, 377, 725-8	50.4	240
161	Spatiotemporal patterns of spindle oscillations in cortex and thalamus. *Journal of Neuroscience*, **1997**, 17, 1179-96	6.6	239
160	FAST MONTE CARLO SIMULATION METHODS FOR BIOLOGICAL REACTION-DIFFUSION SYSTEMS IN SOLUTION AND ON SURFACES. *SIAM Journal of Scientific Computing*, **2008**, 30, 3126	2.6	221
159	Neuronal tuning: To sharpen or broaden?. *Neural Computation*, **1999**, 11, 75-84	2.9	214
158	Network oscillations: emerging computational principles. *Journal of Neuroscience*, **2006**, 26, 1673-6	6.6	212
157	Measuring facial expressions by computer image analysis. *Psychophysiology*, **1999**, 36, 253-63	4.1	208
156	Cortical travelling waves: mechanisms and computational principles. *Nature Reviews Neuroscience*, **2018**, 19, 255-268	13.5	194
155	Cholinergic induction of oscillations in the hippocampal slice in the slow (0.5-2 Hz), theta (5-12 Hz), and gamma (35-70 Hz) bands. *Hippocampus*, **2000**, 10, 187-97	3.5	190
154	Population dynamics and theta rhythm phase precession of hippocampal place cell firing: a spiking neuron model. *Hippocampus*, **1996**, 6, 271-80	3.5	182
153	Cortical gamma band synchronization through somatostatin interneurons. *Nature Neuroscience*, **2017**, 20, 951-959	25.5	173
152	Independent sources of quantal variability at single glutamatergic synapses. *Journal of Neuroscience*, **2003**, 23, 3186-95	6.6	168
151	A computational model of how the basal ganglia produce sequences. *Journal of Cognitive Neuroscience*, **1998**, 10, 108-21	3.1	167
150	Putting big data to good use in neuroscience. *Nature Neuroscience*, **2014**, 17, 1440-1	25.5	166
149	A Learning Algorithm for Boltzmann Machines* **1985**, 9, 147		162
148	Astrocytes contribute to gamma oscillations and recognition memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3343-52	11.5	158

147	Metabolic cost as a unifying principle governing neuronal biophysics. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12329-34	11.5	155
146	Evidence for ectopic neurotransmission at a neuronal synapse. *Science*, **2005**, 309, 446-51	33.3	148
145	Nanoconnectomic upper bound on the variability of synaptic plasticity. *ELife*, **2015**, 4, e10778	8.9	144
144	Spike-timing-dependent Hebbian plasticity as temporal difference learning. *Neural Computation*, **2001**, 13, 2221-37	2.9	138
143	Interstitial solute transport in 3D reconstructed neuropil occurs by diffusion rather than bulk flow. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 9894-9899	11.5	133
142	A Monte Carlo model reveals independent signaling at central glutamatergic synapses. *Biophysical Journal*, **2002**, 83, 2333-48	2.9	131
141	The BRAIN Initiative: developing technology to catalyse neuroscience discovery. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2015**, 370,	5.8	119
140	Computational model of carbachol-induced delta, theta, and gamma oscillations in the hippocampus. *Hippocampus*, **2001**, 11, 251-74	3.5	118
139	Synchrony of thalamocortical inputs maximizes cortical reliability. *Science*, **2010**, 328, 106-9	33.3	116
138	Population dynamics and theta rhythm phase precession of hippocampal place cell firing: A spiking neuron model **1996**, 6, 271		105
137	The unreasonable effectiveness of deep learning in artificial intelligence. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30033-30038	11.5	102
136	Complexity of calcium signaling in synaptic spines. *BioEssays*, **2002**, 24, 1130-44	4.1	89
135	The Deep Learning Revolution **2018**,		88
134	Abnormal Gamma Oscillations in N-Methyl-D-Aspartate Receptor Hypofunction Models of Schizophrenia. *Biological Psychiatry*, **2016**, 79, 716-726	7.9	84
133	Extracellular sheets and tunnels modulate glutamate diffusion in hippocampal neuropil. *Journal of Comparative Neurology*, **2013**, 521, 448-64	3.4	83
132	Rotating waves during human sleep spindles organize global patterns of activity that repeat precisely through the night. *ELife*, **2016**, 5,	8.9	83
131	Pre-post synaptic alignment through neuroligin-1 tunes synaptic transmission efficiency. *ELife*, **2018**, 7,	8.9	78
130	The book of Hebb. *Neuron*, **1999**, 24, 773-6	13.9	77

129	Cellular and network models for intrathalamic augmenting responses during 10-Hz stimulation. *Journal of Neurophysiology*, **1998**, 79, 2730-48	3.2	76
128	Calmodulin activation by calcium transients in the postsynaptic density of dendritic spines. *PLoS ONE*, **2008**, 3, e2045	3.7	72
127	Learning to soar in turbulent environments. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E4877-84	11.5	72
126	Experience matters: information acquisition optimizes probability gain. *Psychological Science*, **2010**, 21, 960-9	7.9	67
125	Exploration bonuses and dual control. *Machine Learning*, **1996**, 25, 5-22	4	60
124	A Unifying Objective Function for Topographic Mappings. *Neural Computation*, **1997**, 9, 1291-1303	2.9	59
123	Brain-state dependent astrocytic Ca signals are coupled to both positive and negative BOLD-fMRI signals. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1647-E1656	11.5	55
122	Utilizing Deep Learning Towards Multi-modal Bio-sensing and Vision-based Affective Computing. *IEEE Transactions on Affective Computing*, **2019**, 1-1	5.7	53
121	Gap junction effects on precision and frequency of a model pacemaker network. *Journal of Neurophysiology*, **2000**, 83, 984-97	3.2	51
120	Modelling vesicular release at hippocampal synapses. *PLoS Computational Biology*, **2010**, 6, e1000983	5	49
119	Optimal smoothing in visual motion perception. *Neural Computation*, **2001**, 13, 1243-53	2.9	43
118	Nanoscale co-organization and coactivation of AMPAR, NMDAR, and mGluR at excitatory synapses. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14503-14511	11.5	38
117	Variational Bayesian Learning of ICA with Missing Data. *Neural Computation*, **2003**, 15, 1991-2011	2.9	38
116	Beyond excitation/inhibition imbalance in multidimensional models of neural circuit changes in brain disorders. *ELife*, **2017**, 6,	8.9	38
115	Short-term plasticity constrains spatial organization of a hippocampal presynaptic terminal. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14657-62	11.5	37
114	Spectrum of power laws for curved hand movements. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E3950-8	11.5	36
113	Selective memory generalization by spatial patterning of protein synthesis. *Neuron*, **2014**, 82, 398-412	13.9	33
112	Computational reconstitution of spine calcium transients from individual proteins. *Frontiers in Synaptic Neuroscience*, **2015**, 7, 17	3.5	33

111	Beyond modularity: Neural evidence for constructivist principles in development. *Behavioral and Brain Sciences*, **1994**, 17, 725-726	0.9	33
110	Spontaneous travelling cortical waves gate perception in behaving primates. *Nature*, **2020**, 587, 432-436	50.4	33
109	Synaptic plasticity in morphologically identified CA1 stratum radiatum interneurons and giant projection cells. *Hippocampus*, **2000**, 10, 673-83	3.5	32
108	Feedback stabilizes propagation of synchronous spiking in cortical neural networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2545-50	11.5	31
107	Dendritic spine geometry and spine apparatus organization govern the spatiotemporal dynamics of calcium. *Journal of General Physiology*, **2019**, 151, 1017-1034	3.4	30
106	Regulating Cortical Oscillations in an Inhibition-Stabilized Network. *Proceedings of the IEEE*, **2014**, 102,	14.3	29
105	Learning viewpoint-invariant face representations from visual experience in an attractor network		29
104	Multi-state modeling of biomolecules. *PLoS Computational Biology*, **2014**, 10, e1003844	5	28
103	Diverse Representations of Olfactory Information in Centrifugal Feedback Projections. *Journal of Neuroscience*, **2016**, 36, 7535-45	6.6	28
102	Dendritic trafficking faces physiologically critical speed-precision tradeoffs. *ELife*, **2016**, 5,	8.9	27
101	Centrifugal Inputs to the Main Olfactory Bulb Revealed Through Whole Brain Circuit-Mapping. *Frontiers in Neuroanatomy*, **2018**, 12, 115	3.6	27
100	Spatially fixed patterns account for the spike and wave features in absence seizures. *Brain Topography*, **1999**, 12, 107-16	4.3	26
99	Non-linear dynamical analysis of EEG time series distinguishes patients with Parkinson's disease from healthy individuals. *Frontiers in Neurology*, **2013**, 4, 200	4.1	25
98	Strong inhibitory signaling underlies stable temporal dynamics and working memory in spiking neural networks. *Nature Neuroscience*, **2021**, 24, 129-139	25.5	25
97	Parallel Fiber Coding in the Cerebellum for Life-Long Learning. *Autonomous Robots*, **2001**, 11, 291-297	3	24
96	Impairments in remote memory caused by the lack of Type 2 IP receptors. *Glia*, **2019**, 67, 1976-1989	9	23
95	Self-organizing neural systems based on predictive learning. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2003**, 361, 1149-75	3	23
94	Mitochondrial morphology provides a mechanism for energy buffering at synapses. *Scientific Reports*, **2019**, 9, 18306	4.9	23

93	Geometric principles of second messenger dynamics in dendritic spines. *Scientific Reports*, **2019**, 9, 11676	4.9	22
92	Simple framework for constructing functional spiking recurrent neural networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22811-22820	11.5	22
91	Short-term synaptic plasticity in the deterministic Tsodyks-Markram model leads to unpredictable network dynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 16610-5	11.5	22
90	Electrocardiogram classification using delay differential equations. *Chaos*, **2013**, 23, 023132	3.3	22
89	Learning viewpoint-invariant face representations from visual experience in an attractor network. *Network: Computation in Neural Systems*, **1998**, 9, 399-417	0.7	19
88	A Discrete Presynaptic Vesicle Cycle for Neuromodulator Receptors. *Neuron*, **2020**, 105, 663-677.e8	13.9	19
87	Simulations of a Reconstructed Cerebellar Purkinje Cell Based on Simplified Channel Kinetics. *Neural Computation*, **1991**, 3, 321-332	2.9	18
86	Synchronization of isolated downstates (K-complexes) may be caused by cortically-induced disruption of thalamic spindling. *PLoS Computational Biology*, **2014**, 10, e1003855	5	17
85	NMDAR-dependent long-term depression is associated with increased short term plasticity through autophagy mediated loss of PSD-95. *Nature Communications*, **2021**, 12, 2849	17.4	17
84	Blending computational and experimental neuroscience. *Nature Reviews Neuroscience*, **2016**, 17, 667-668	33.5	17
83	A Wearable Multi-Modal Bio-Sensing System Towards Real-World Applications. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 1137-1147	5	17
82	Place cell rate remapping by CA3 recurrent collaterals. *PLoS Computational Biology*, **2014**, 10, e1003648	5	15
81	Interpretation of the Precision Matrix and Its Application in Estimating Sparse Brain Connectivity during Sleep Spindles from Human Electrocorticography Recordings. *Neural Computation*, **2017**, 29, 603-642	2.9	14
80	Nonlinear dynamics underlying sensory processing dysfunction in schizophrenia. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 3847-3852	11.5	14
79	Top-down inputs enhance orientation selectivity in neurons of the primary visual cortex during perceptual learning. *PLoS Computational Biology*, **2014**, 10, e1003770	5	14
78	Pharmacological reversal of synaptic and network pathology in human MECP2-KO neurons and cortical organoids. *EMBO Molecular Medicine*, **2021**, 13, e12523	12	14
77	Irregular synchronous activity in stochastically-coupled networks of integrate-and-fire neurons		14
76	Non-linear dynamical classification of short time series of the rössler system in high noise regimes. *Frontiers in Neurology*, **2013**, 4, 182	4.1	13

75	Predictive learning of temporal sequences in recurrent neocortical circuits. *Novartis Foundation Symposium*, **2001**, 239, 208-29; discussion 229-40		13
74	Neural networks. Sleep and memory. *Current Biology*, **1995**, 5, 832-4	6.3	13
73	Periodic Forcing of Inhibition-Stabilized Networks: Nonlinear Resonances and Phase-Amplitude Coupling. *Neural Computation*, **2015**, 27, 2477-509	2.9	12
72	The Population Tracking Model: A Simple, Scalable Statistical Model for Neural Population Data. *Neural Computation*, **2017**, 29, 50-93	2.9	12
71	Model reduction for stochastic CaMKII reaction kinetics in synapses by graph-constrained correlation dynamics. *Physical Biology*, **2015**, 12, 045005	3	11
70	Objective, computerized video-based rating of blepharospasm severity. *Neurology*, **2016**, 87, 2146-2153	6.5	11
69	VolRoverN: enhancing surface and volumetric reconstruction for realistic dynamical simulation of cellular and subcellular function. *Neuroinformatics*, **2014**, 12, 277-89	3.2	11
68	Cortical chimera states predict epileptic seizures. *Chaos*, **2019**, 29, 121106	3.3	11
67	Conservation law for self-paced movements. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8831-6	11.5	10
66	Prospective Optimization. *Proceedings of the IEEE*, **2014**, 102,	14.3	10
65	Analysis of fMRI data by blind separation into independent spatial components **1998**, 6, 160		10
64	The ventral striatum dissociates information expectation, reward anticipation, and reward receipt. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15200-15208	11.5	9
63	Thalamocortical and intracortical laminar connectivity determines sleep spindle properties. *PLoS Computational Biology*, **2018**, 14, e1006171	5	9
62	Irregular synchronous activity in stochastically-coupled networks of integrate-and-fire neurons. *Network: Computation in Neural Systems*, **1998**, 9, 333-344	0.7	9
61	Delay Differential Analysis of Seizures in Multichannel Electrocorticography Data. *Neural Computation*, **2017**, 29, 3181-3218	2.9	8
60	Heterogeneities in Axonal Structure and Transporter Distribution Lower Dopamine Reuptake Efficiency. *ENeuro*, **2018**, 5,	3.9	8
59	MCell-R: A Particle-Resolution Network-Free Spatial Modeling Framework. *Methods in Molecular Biology*, **2019**, 1945, 203-229	1.4	7
58	Delay differential analysis of electroencephalographic data. *Neural Computation*, **2015**, 27, 615-27	2.9	7

57	Time-coded neurotransmitter release at excitatory and inhibitory synapses. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1108-15	11.5	7
56	Differential Covariance: A New Class of Methods to Estimate Sparse Connectivity from Neural Recordings. *Neural Computation*, **2017**, 29, 2581-2632	2.9	7
55	Impact of Affective Multimedia Content on the Electroencephalogram and Facial Expressions. *Scientific Reports*, **2019**, 9, 16295	4.9	7
54	Constraining constructivism: Cortical and sub-cortical constraints on learning in development. *Behavioral and Brain Sciences*, **2000**, 23, 785-791	0.9	6
53	Toward a semi-self-paced EEG brain computer interface: decoding initiation state from non-initiation state in dedicated time slots. *PLoS ONE*, **2014**, 9, e88915	3.7	6
52	Replay in Deep Learning: Current Approaches and Missing Biological Elements. *Neural Computation*, **2021**, 33, 2908-2950	2.9	6
51	Characterizing Brain Connectivity From Human Electrocorticography Recordings With Unobserved Inputs During Epileptic Seizures. *Neural Computation*, **2019**, 31, 1271-1326	2.9	5
50	A modeling framework for adaptive lifelong learning with transfer and savings through gating in the prefrontal cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 29872-29882	11.5	5
49	Structured networks support sparse traveling waves in rodent somatosensory cortex. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5277-5282	11.5	5
48	Efficient Multiscale Models of Polymer Assembly. *Biophysical Journal*, **2016**, 111, 185-96	2.9	5
47	Identifying transport behavior of single-molecule trajectories. *Biophysical Journal*, **2014**, 107, 2345-51	2.9	5
46	Motor adaptation and generalization of reaching movements using motor primitives based on spatial coordinates. *Journal of Neurophysiology*, **2015**, 113, 1217-33	3.2	4
45	Causality detection in cortical seizure dynamics using cross-dynamical delay differential analysis. *Chaos*, **2019**, 29, 101103	3.3	4
44	The computational self. *Annals of the New York Academy of Sciences*, **2003**, 1001, 262-71	6.5	4
43	Spontaneous Traveling Cortical Waves Gate Perception in Awake Behaving Primates		4
42	Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator. *PLoS Computational Biology*, **2020**, 16, e1008015	5	4
41	Diversity-enabled sweet spots in layered architectures and speed-accuracy trade-offs in sensorimotor control. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
40	A multi-state model of the CaMKII dodecamer suggests a role for calmodulin in maintenance of autophosphorylation. *PLoS Computational Biology*, **2019**, 15, e1006941	5	4

39	The nucleus does not significantly affect the migratory trajectories of amoeba in two-dimensional environments. *Scientific Reports*, **2019**, 9, 16369	4.9	4
38	Predicting the fMRI Signal Fluctuation with Recurrent Neural Networks Trained on Vascular Network Dynamics. *Cerebral Cortex*, **2021**, 31, 826-844	5.1	4
37	Multi-modal Approach for Affective Computing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 291-294	0.9	4
36	Ketamine independently modulated power and phase-coupling of theta oscillations in Sp4 hypomorphic mice. *PLoS ONE*, **2018**, 13, e0193446	3.7	3
35	Consequences of non-uniform active currents in dendrites. *Frontiers in Neuroscience*, **2009**, 3, 332-3	5.1	3
34	NEUROSCIENCE: The Hippocampus Review. *Science*, **2007**, 317, 44-45	33.3	3
33	Spontaneous traveling waves naturally emerge from horizontal fiber time delays and travel through locally asynchronous-irregular states. *Nature Communications*, **2021**, 12, 6057	17.4	3
32	Strong inhibitory signaling underlies stable temporal dynamics and working memory in spiking neural networks		3
31	Independent component analysis of fMRI data: Examining the assumptions **1998**, 6, 368		3
30	Population dynamics and theta rhythm phase precession of hippocampal place cell firing: A spiking neuron model		3
29	Consciousness. *Daedalus*, **2015**, 144, 123-132	2	2
28	Heterogeneity of Preictal Dynamics in Human Epileptic Seizures. *IEEE Access*, **2020**, 8, 52738-52748	3.5	2
27	Vernon Mountcastle: Father of neuroscience. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6523-4	11.5	2
26	Author response: Nanoconnectomic upper bound on the variability of synaptic plasticity **2015**,		2
25	Presynaptic Endoplasmic Reticulum Contributes Crucially to Short-term Plasticity in Small Hippocampal Synapses		2
24	Simple Framework for Constructing Functional Spiking Recurrent Neural Networks		2
23	Dynamical differential covariance recovers directional network structure in multiscale neural systems		2
22	Analysis of fMRI data by blind separation into independent spatial components **1998**, 6, 160		2

#	Title	IF	Cites
21	Street View of the Cognitive Map. *Cell*, **2016**, 164, 13-15	56.2	1
20	Feedforward Thalamocortical Connectivity Preserves Stimulus Timing Information in Sensory Pathways. *Journal of Neuroscience*, **2019**, 39, 7674-7688	6.6	1
19	Decision-making neural circuits mediating social behaviors : An attractor network model. *Journal of Computational Neuroscience*, **2017**, 43, 127-142	1.4	1
18	Multivariate spectral analysis of electroencephalography data **2013**,		1
17	What is consolidated during sleep-dependent motor skill learning?. *Behavioral and Brain Sciences*, **2005**, 28, 70-71	0.9	1
16	Learning the Synaptic and Intrinsic Membrane Dynamics Underlying Working Memory in Spiking Neural Network Models. *Neural Computation*, **2021**, 33, 3264-3287	2.9	1
15	The population tracking model: A simple, scalable statistical model for neural population data		1
14	Neuromodulators enable overlapping synaptic memory regimes and nonlinear transition dynamics in recurrent neural networks		1
13	Biological underpinnings for lifelong learning machines. *Nature Machine Intelligence*, **2022**, 4, 196-210	22.5	1
12	Dynamical ergodicity DDA reveals causal structure in time series. *Chaos*, **2021**, 31, 103108	3.3	0
11	Geometry unites synchrony, chimeras, and waves in nonlinear oscillator networks.. *Chaos*, **2022**, 32, 031104	3.3	0
10	Summary: Cognition in 2014. *Cold Spring Harbor Symposia on Quantitative Biology*, **2014**, 79, 237-41	3.9	
9	Perceptions of science. Tap into science 24-7. *Science*, **2003**, 301, 601	33.3	
8	Exploration Bonuses and Dual Control. *Machine Learning*, **1996**, 25, 5-22	4	
7	Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015		
6	Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015		
5	Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015		
4	Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015		

3   Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015

2   Interactions between calmodulin and neurogranin govern the dynamics of CaMKII as a leaky integrator **2020**, 16, e1008015

1   Multiscale modeling of presynaptic dynamics from molecular to mesoscale.. *PLoS Computational Biology*, **2022**, 18, e1010068   *5*