

# Anthony N Burkitt

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/321639/anthony-n-burkitt-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139  
papers

3,050  
citations

32  
h-index

51  
g-index

157  
ext. papers

3,854  
ext. citations

3.6  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
139	Spatiotemporal Patterns of High-Frequency Activity (80-170 Hz) in Long-Term Intracranial EEG. <i>Neurology</i> , <b>2021</b> , 96, e1070-e1081	6.5	7
138	Predictive Visual Motion Extrapolation Emerges Spontaneously and without Supervision at Each Layer of a Hierarchical Neural Network with Spike-Timing-Dependent Plasticity. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 4428-4438	6.6	3
137	Learning an Efficient Hippocampal Place Map from Entorhinal Inputs Using Non-Negative Sparse Coding. <i>ENeuro</i> , <b>2021</b> , 8,	3.9	1
136	Motor neuroprosthesis implanted with neurointerventional surgery improves capacity for activities of daily living tasks in severe paralysis: first in-human experience. <i>Journal of NeuroInterventional Surgery</i> , <b>2021</b> , 13, 102-108	7.8	28
135	High-Frequency Oscillations in Epilepsy: What Have We Learned and What Needs to be Addressed. <i>Neurology</i> , <b>2021</b> , 96, 439-448	6.5	13
134	Learning receptive field properties of complex cells in V1. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1007957	5.7	0
133	Seizure likelihood varies with day-to-day variations in sleep duration in patients with refractory focal epilepsy: A longitudinal electroencephalography investigation. <i>EClinicalMedicine</i> , <b>2021</b> , 37, 100934 <sup>11.3</sup>	11.3	4
132	Impact of axonal delay on structure development in a multi-layered network. <i>Neural Networks</i> , <b>2021</b> , 144, 737-754	9.1	0
131	Critical slowing down as a biomarker for seizure susceptibility. <i>Nature Communications</i> , <b>2020</b> , 11, 2172	17.4	50
130	In vivo feasibility of epiretinal stimulation using ultrananocrystalline diamond electrodes. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 045014	5	2
129	Adaptive Surround Modulation of MT Neurons: A Computational Model. <i>Frontiers in Neural Circuits</i> , <b>2020</b> , 14, 529345	3.5	
128	Computational Neural Modeling of Auditory Cortical Receptive Fields. <i>Frontiers in Computational Neuroscience</i> , <b>2019</b> , 13, 28	3.5	5
127	Toward a Biologically Plausible Model of LGN-V1 Pathways Based on Efficient Coding. <i>Frontiers in Neural Circuits</i> , <b>2019</b> , 13, 13	3.5	5
126	Pattern Motion Processing by MT Neurons. <i>Frontiers in Neural Circuits</i> , <b>2019</b> , 13, 43	3.5	3
125	Predictive Coding with Neural Transmission Delays: A Real-Time Temporal Alignment Hypothesis. <i>ENeuro</i> , <b>2019</b> , 6,	3.9	16
124	Global activity shaping strategies for a retinal implant. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 026008	5	8
123	Predictive coding of visual object position ahead of moving objects revealed by time-resolved EEG decoding. <i>NeuroImage</i> , <b>2018</b> , 171, 55-61	7.9	25

122	A biologically-based computational model of visual cortex that overcomes the X-junction illusion. <i>Neural Networks</i> , <b>2018</b> , 102, 10-20	9.1	5
121	Compensation for Traveling Wave Delay Through Selection of Dendritic Delays Using Spike-Timing-Dependent Plasticity in a Model of the Auditory Brainstem. <i>Frontiers in Computational Neuroscience</i> , <b>2018</b> , 12, 36	3.5	3
120	Feasibility of Nitrogen Doped Ultrananocrystalline Diamond Microelectrodes for Electrophysiological Recording From Neural Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 85	5.8	5
119	Biophysical basis of the linear electrical receptive fields of retinal ganglion cells. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 055001	5	7
118	Electrical receptive fields of retinal ganglion cells: Influence of presynaptic neurons. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1005997	5	9
117	Minimizing activation of overlying axons with epiretinal stimulation: The role of fiber orientation and electrode configuration. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193598	3.7	13
116	Bistability in Hodgkin-Huxley-type equations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 4728-4731	0.9	1
115	Diamond Devices for High Acuity Prosthetic Vision. <i>Advanced Biology</i> , <b>2017</b> , 1, e1600003	3.5	23
114	Prediction of cortical responses to simultaneous electrical stimulation of the retina. <i>Journal of Neural Engineering</i> , <b>2017</b> , 14, 016006	5	13
113	A Minimally Invasive Endovascular Stent-Electrode Array for Chronic Recordings of Cortical Neural Activity. <i>Springer Briefs in Electrical and Computer Engineering</i> , <b>2017</b> , 55-63	0.4	1
112	Neural Responses to Multielectrode Stimulation of Healthy and Degenerate Retina <b>2017</b> , 58, 3770-3784		16
111	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. <i>BMC Neuroscience</i> , <b>2017</b> , 18,	3.2	5
110	An integrated model of pitch perception incorporating place and temporal pitch codes with application to cochlear implant research. <i>Hearing Research</i> , <b>2017</b> , 344, 135-147	3.9	10
109	Single-compartment models of retinal ganglion cells with different electrophysiologies. <i>Network: Computation in Neural Systems</i> , <b>2017</b> , 28, 74-93	0.7	6
108	Suprachoroidal Retinal Prostheses <b>2017</b> , 125-138		3
107	Feasibility of a chronic, minimally invasive endovascular neural interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 4455-4458	0.9	6
106	Minimally invasive endovascular stent-electrode array for high-fidelity, chronic recordings of cortical neural activity. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 320-7	44.5	127
105	Learning Pitch with STDP: A Computational Model of Place and Temporal Pitch Perception Using Spiking Neural Networks. <i>PLoS Computational Biology</i> , <b>2016</b> , 12, e1004860	5	5

104	A Possible Role for End-Stopped V1 Neurons in the Perception of Motion: A Computational Model. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164813	3.7	6
103	A computational model of orientation-dependent activation of retinal ganglion cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 5447-5450	0.9	1
102	Spectral distribution of local field potential responses to electrical stimulation of the retina. <i>Journal of Neural Engineering</i> , <b>2016</b> , 13, 036003	5	8
101	Changes in ganglion cells during retinal degeneration. <i>Neuroscience</i> , <b>2016</b> , 329, 1-11	3.9	22
100	Chronic impedance spectroscopy of an endovascular stent-electrode array. <i>Journal of Neural Engineering</i> , <b>2016</b> , 13, 046020	5	24
99	Spike history neural response model. <i>Journal of Computational Neuroscience</i> , <b>2015</b> , 38, 463-81	1.4	4
98	The neurodynamics of epilepsy: a homotopy analysis between current-based and conductance-based synapses in a neural field model of epilepsy. <i>BMC Neuroscience</i> , <b>2015</b> , 16,	3.2	78
97	Computational neural modelling of auditory cortical receptive fields. <i>BMC Neuroscience</i> , <b>2015</b> , 16,	3.2	78
96	The interaction between integration and segmentation neurons for motion perception. <i>BMC Neuroscience</i> , <b>2015</b> , 16,	3.2	78
95	An increase in the extracellular potassium concentration can cause seizures. <i>BMC Neuroscience</i> , <b>2015</b> , 16,	3.2	78
94	Broadband onset inhibition can suppress spectral splatter in the auditory brainstem. <i>PLoS ONE</i> , <b>2015</b> , 10, e0126500	3.7	6
93	Improved visual performance in letter perception through edge orientation encoding in a retinal prosthesis simulation. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 066002	5	2
92	A linear-nonlinear model accurately predicts cortical responses to simultaneous electrical stimulation with a retinal implant. <i>BMC Neuroscience</i> , <b>2014</b> , 15, P95	3.2	78
91	Seizure dynamics: a computational model based approach demonstrating variability in seizure mechanisms. <i>BMC Neuroscience</i> , <b>2014</b> , 15,	3.2	78
90	Goal-directed control with cortical units that are gated by both top-down feedback and oscillatory coherence. <i>BMC Neuroscience</i> , <b>2014</b> , 15, P197	3.2	78
89	Observability limits for networked oscillators. <i>Automatica</i> , <b>2014</b> , 50, 1087-1099	5.7	6
88	A comparison of open-loop and closed-loop stimulation strategies to control excitation of retinal ganglion cells. <i>Biomedical Signal Processing and Control</i> , <b>2014</b> , 14, 164-174	4.9	2
87	Coexistence of reward and unsupervised learning during the operant conditioning of neural firing rates. <i>PLoS ONE</i> , <b>2014</b> , 9, e87123	3.7	3

86	Goal-directed control with cortical units that are gated by both top-down feedback and oscillatory coherence. <i>Frontiers in Neural Circuits</i> , <b>2014</b> , 8, 94	3.5	3
85	Application of a pitch perception model to investigate the effect of stimulation field spread on the pitch ranking abilities of cochlear implant recipients. <i>Hearing Research</i> , <b>2014</b> , 316, 129-37	3.9	4
84	Interplay of intrinsic and synaptic conductances in the generation of high-frequency oscillations in interneuronal networks with irregular spiking. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003574	5	14
83	Modelling extracellular electrical stimulation: part 4. Effect of the cellular composition of neural tissue on its spatio-temporal filtering properties. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 065005	5	20
82	Modelling extracellular electrical stimulation: part 3. Derivation and interpretation of neural tissue equations. <i>Journal of Neural Engineering</i> , <b>2014</b> , 11, 065004	5	26
81	Feedback stimulation strategy: control of retinal ganglion cells activation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 1703-6	0.9	
80	First-in-human trial of a novel suprachoroidal retinal prosthesis. <i>PLoS ONE</i> , <b>2014</b> , 9, e115239	3.7	201
79	The effect of morphology upon electrophysiological responses of retinal ganglion cells: simulation results. <i>Journal of Computational Neuroscience</i> , <b>2014</b> , 36, 157-75	1.4	15
78	Onset-inhibition in the auditory brainstem: a potential mechanism for signal enhancement of speech-like sounds. <i>BMC Neuroscience</i> , <b>2013</b> , 14,	3.2	78
77	The Neurodynamics of Epilepsy: Synaptic regulation and reversal potential modulation during seizures in a neural field model with conductance-based synapses. <i>BMC Neuroscience</i> , <b>2013</b> , 14,	3.2	1
76	Spatial shaping of neural activity using electrical stimulation. <i>BMC Neuroscience</i> , <b>2013</b> , 14,	3.2	78
75	Predicting the location of the axon initial segment using spike waveform analysis: simulations of retinal ganglion cell physiology. <i>BMC Neuroscience</i> , <b>2013</b> , 14,	3.2	78
74	Requirements for the robust operant conditioning of neural firing rates. <i>BMC Neuroscience</i> , <b>2013</b> , 14,	3.2	78
73	Modeling intrinsic electrophysiology of All amacrine cells: preliminary results. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 6551-4	0.9	2
72	Delay selection by spike-timing-dependent plasticity in recurrent networks of spiking neurons receiving oscillatory inputs. <i>PLoS Computational Biology</i> , <b>2013</b> , 9, e1002897	5	14
71	Optimized single pulse stimulation strategy for retinal implants. <i>Journal of Neural Engineering</i> , <b>2013</b> , 10, 016003	5	3
70	Retinal ganglion cells electrophysiology: the effect of cell morphology on impulse waveform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 2583-6	0.9	
69	Effect of soma polarization on electrical stimulation thresholds of retinal ganglion cells <b>2013</b> ,		2

68	Internal inconsistencies in models of electrical stimulation in neural tissue. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 5946-9</i>	0.9	3
67	Embracing the irregular: a patient-specific image processing strategy for visual prostheses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 3563-6</i>	0.9	4
66	Multicompartment retinal ganglion cells response to high frequency bi-phasic pulse train stimulation: Simulation results. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 69-72</i>	0.9	1
65	Heating of the eye by a retinal prosthesis: modeling, cadaver and in vivo study. <i>IEEE Transactions on Biomedical Engineering, 2012, 59, 339-45</i>	5	33
64	STDP encodes oscillation frequencies in the connections of recurrent networks of spiking neurons. <i>BMC Neuroscience, 2012, 13,</i>	3.2	78
63	Modeling extracellular electrical stimulation: I. Derivation and interpretation of neurite equations. <i>Journal of Neural Engineering, 2012, 9, 065005</i>	5	39
62	Frequency selectivity emerging from spike-timing-dependent plasticity. <i>Neural Computation, 2012, 24, 2251-79</i>	2.9	14
61	Modeling extracellular electrical stimulation: II. Computational validation and numerical results. <i>Journal of Neural Engineering, 2012, 9, 065006</i>	5	21
60	Spectral analysis of input spike trains by spike-timing-dependent plasticity. <i>PLoS Computational Biology, 2012, 8, e1002584</i>	5	12
59	Retinal prosthesis safety: alterations in microglia morphology due to thermal damage and retinal implant contact <b>2012, 53, 7802-12</b>		23
58	Feature accentuation in phosphenated images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5915-8</i>	0.9	1
57	Information theoretic inference of the optimal number of electrodes for future cochlear implants using a spiral cochlea model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3047-9</i>	0.9	4
56	Minimisation of required charge for desired neuronal spike rate. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3009-12</i>	0.9	1
55	Determining the electrical impedance of the retina from a complex voltage map. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3005-8</i>	0.9	1
54	An investigation of dendritic delay in octopus cells of the mammalian cochlear nucleus. <i>Frontiers in Computational Neuroscience, 2012, 6, 83</i>	3.5	11
53	Sinusoidal Stimulation of Retinal Bipolar Cells: A Modelling Study <b>2012,</b>		2
52	Probing for cortical excitability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 1644-7</i>	0.9	1
51	Electrical probing of cortical excitability in patients with epilepsy. <i>Epilepsy and Behavior, 2011, 22 Suppl 1, S110-8</i>	3.2	41

50	Exploring the tolerability of spatiotemporally complex electrical stimulation paradigms. <i>Epilepsy Research</i> , <b>2011</b> , 96, 267-75	3	30
49	Modelling intrinsic electrophysiological properties of ON and OFF retinal ganglion cells. <i>Journal of Computational Neuroscience</i> , <b>2011</b> , 31, 547-61	1.4	26
48	A bifurcation analysis of a modified neural field model: conductance-based synapses act as an anti-epileptic regulatory mechanism. <i>BMC Neuroscience</i> , <b>2011</b> , 12,	3.2	78
47	Learning a sparse code for temporal sequences using STDP and sequence compression. <i>Neural Computation</i> , <b>2011</b> , 23, 2567-98	2.9	20
46	Theoretical framework for estimating the conductivity map of the retina through finite element analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6721-4	0.9	1
45	Simulating electrical stimulation of degenerative retinal ganglion cells with bi-phasic pulse trains. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 7103-6	0.9	2
44	Predicting phosphene elicitation in patients with retinal implants: a mathematical study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6246-9	0.9	2
43	Closed-loop seizure control with very high frequency electrical stimulation at seizure onset in the GAERS model of absence epilepsy. <i>International Journal of Neural Systems</i> , <b>2011</b> , 21, 163-73	6.2	50
42	Differential stimulation of ON and OFF retinal ganglion cells: a modeling study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4246-9	0.9	3
41	Spiking neuron model for temporal sequence recognition. <i>Neural Computation</i> , <b>2010</b> , 22, 61-93	2.9	3
40	Thermal heating of a retinal prosthesis: thermal model and in-vitro study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 1597-600	0.9	8
39	Representation of input structure in synaptic weights by spike-timing-dependent plasticity. <i>Physical Review E</i> , <b>2010</b> , 82, 021912	2.4	8
38	Viability of the inner retina in a novel mouse model of retinitis pigmentosa. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 553-6	0.9	2
37	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks V: self-organization schemes and weight dependence. <i>Biological Cybernetics</i> , <b>2010</b> , 103, 365-86 <sup>2.8</sup>	2.8	24
36	Across-frequency delays based on the cochlear traveling wave: enhanced speech presentation for cochlear implants. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 596-606	5	3
35	A Channel Model for Inferring the Optimal Number of Electrodes for Future Cochlear Implants. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 928-940	2.8	13
34	Seizure severity and duration in the cortical stimulation model of experimental epilepsy in rats: a longitudinal study. <i>Epilepsy Research</i> , <b>2010</b> , 89, 261-70	3	11
33	Patient-specific bivariate-synchrony-based seizure prediction for short prediction horizons. <i>Epilepsy Research</i> , <b>2010</b> , 91, 214-31	3	57

32	The effect of visual cues on auditory stream segregation in musicians and non-musicians. <i>PLoS ONE</i> , <b>2010</b> , 5, e11297	3.7	13
31	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks. I. Input selectivity--strengthening correlated input pathways. <i>Biological Cybernetics</i> , <b>2009</b> , 101, 81-102	2.8	58
30	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks. II. Input selectivity--symmetry breaking. <i>Biological Cybernetics</i> , <b>2009</b> , 101, 103-14	2.8	32
29	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks III: Partially connected neurons driven by spontaneous activity. <i>Biological Cybernetics</i> , <b>2009</b> , 101, 411-26	2.8	34
28	Emergence of network structure due to spike-timing-dependent plasticity in recurrent neuronal networks IV: structuring synaptic pathways among recurrent connections. <i>Biological Cybernetics</i> , <b>2009</b> , 101, 427-44	2.8	45
27	Seizure detection using seizure probability estimation: comparison of features used to detect seizures. <i>Annals of Biomedical Engineering</i> , <b>2009</b> , 37, 2129-45	4.7	39
26	Speech coding with traveling wave delays: Desynchronizing cochlear implant frequency bands with cochlea-like group delays. <i>Speech Communication</i> , <b>2009</b> , 51, 1114-1123	2.8	1
25	The thalamocortical circuit and the generation of epileptic spikes in rat models of focal epilepsy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1533-6	0.9	1
24	Spike-Timing Dependent Plasticity in Recurrently Connected Networks with Fixed External Inputs. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 102-111	0.9	
23	Transmission of spiking-rate information through layered networks: the role of recurrent and feedback connections. <i>BMC Neuroscience</i> , <b>2007</b> , 8,	3.2	78
22	Dynamically adjustable contrast enhancement from cortical background activity. <i>Neurocomputing</i> , <b>2005</b> , 65-66, 633-639	5.4	1
21	Spike-timing-dependent plasticity: the relationship to rate-based learning for models with weight dynamics determined by a stable fixed point. <i>Neural Computation</i> , <b>2004</b> , 16, 885-940	2.9	67
20	An analytical model for the "large, fluctuating synaptic conductance state" typical of neocortical neurons in vivo. <i>Journal of Computational Neuroscience</i> , <b>2004</b> , 16, 159-75	1.4	36
19	Ventral cochlear nucleus coding of voice onset time in naturally spoken syllables. <i>Hearing Research</i> , <b>2004</b> , 190, 37-59	3.9	6
18	Summation of spatiotemporal input patterns in leaky integrate-and-fire neurons: application to neurons in the cochlear nucleus receiving converging auditory nerve fiber input. <i>Journal of Computational Neuroscience</i> , <b>2002</b> , 12, 55-73	1.4	23
17	Shot noise in the leaky integrate-and-fire neuron. <i>Physical Review E</i> , <b>2001</b> , 63, 031902	2.4	47
16	Delay analysis in the auditory brainstem of the rat: comparison with click latency. <i>Hearing Research</i> , <b>2001</b> , 159, 85-100	3.9	18
15	Temporal processing from the auditory nerve to the medial nucleus of the trapezoid body in the rat. <i>Hearing Research</i> , <b>2001</b> , 159, 101-16	3.9	93



14	Intracellular responses of the rat cochlear nucleus to sound and its role in temporal coding. <i>NeuroReport</i> , <b>1997</b> , 8, 3415-21	1.7	22
13	Optimised attractor neural networks with external inputs. <i>Lecture Notes in Computer Science</i> , <b>1993</b> , 167-172		
12	Parallel Algorithms for Statistical Physics Problems. <i>Topics in Applied Physics</i> , <b>1992</b> , 53-74	0.5	1
11	Parallel algorithms for statistical physics problems. <i>Topics in Applied Physics</i> , <b>1992</b> , 53-74	0.5	1
10	Geometrically Parallel Algorithms. <i>Springer Series in Information Sciences</i> , <b>1991</b> , 75-104		0
9	Computer Simulation Methods. <i>Springer Series in Information Sciences</i> , <b>1991</b> , 5-35		
8	System size dependence of the autocorrelation time for the Swendsen-Wang Ising model. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1990</b> , 162, 210-214	3.3	72
7	Parallelization of the Ising model and its performance evaluation. <i>Parallel Computing</i> , <b>1990</b> , 13, 345-357	1	15
6	Parallelization of a cluster algorithm. <i>Computer Physics Communications</i> , <b>1989</b> , 54, 201-209	4.2	26
5	A cochlear implant speech processing strategy based on an auditory model		3
4	Spatiotemporal patterns of high-frequency activity (80-170 Hz) in long-term intracranial EEG		3
3	Learning an efficient hippocampal place map from entorhinal inputs using non-negative sparse coding		1
2	Predictive coding with neural transmission delays: a real-time temporal alignment hypothesis		3
1	Critical slowing as a biomarker for seizure susceptibility		4