

Phase-of-Firing Coding of Natural Visual Stimuli in Primate

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Information transmission in oscillatory neural activity. <i>Biological Cybernetics</i> , 2008, 99, 403-416.	0.6	15
2	On the use of information theory for the analysis of the relationship between neural and imaging signals. <i>Magnetic Resonance Imaging</i> , 2008, 26, 1015-1025.	1.0	29
3	Phase Coding: Spikes Get a Boost from Local Fields. <i>Current Biology</i> , 2008, 18, R349-R351.	1.8	12
4	Low-Frequency Local Field Potentials and Spikes in Primary Visual Cortex Convey Independent Visual Information. <i>Journal of Neuroscience</i> , 2008, 28, 5696-5709.	1.7	381
5	Encoding of Naturalistic Stimuli by Local Field Potential Spectra in Networks of Excitatory and Inhibitory Neurons. <i>PLoS Computational Biology</i> , 2008, 4, e1000239.	1.5	247
6	Synchronization in monkey visual cortex analyzed with an information-theoretic measure. <i>Chaos</i> , 2008, 18, 037130.	1.0	24
7	Retinal oscillations carry visual information to cortex. <i>Frontiers in Systems Neuroscience</i> , 2009, 3, 4.	1.2	72
8	Information encoding and reconstruction from the phase of action potentials. <i>Frontiers in Systems Neuroscience</i> , 2009, 3, 6.	1.2	69
9	Bayesian population decoding of spiking neurons. <i>Frontiers in Computational Neuroscience</i> , 2009, 3, 21.	1.2	18
10	Python for information theoretic analysis of neural data. <i>Frontiers in Neuroinformatics</i> , 2009, 3, 4.	1.3	48
11	Spike Timing, Spike Count, and Temporal Information for the Discrimination of Tactile Stimuli in the Rat Ventrobasal Complex. <i>Journal of Neuroscience</i> , 2009, 29, 5964-5973.	1.7	31
12	From Neurons to Circuits: Linear Estimation of Local Field Potentials. <i>Journal of Neuroscience</i> , 2009, 29, 13785-13796.	1.7	62
13	A Paradigm Shift in Functional Brain Imaging. <i>Journal of Neuroscience</i> , 2009, 29, 12729-12734.	1.7	235
14	A toolbox for the fast information analysis of multiple-site LFP, EEG and spike train recordings. <i>BMC Neuroscience</i> , 2009, 10, 81.	0.8	198
15	Bursting neurons encode the time-dependent phase of the input signals. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	0
16	Neural coding and contextual influences in the whisker system. <i>Biological Cybernetics</i> , 2009, 100, 427-446.	0.6	36
17	Visual perception of ambiguous figures: synchronization based neural models. <i>Biological Cybernetics</i> , 2009, 100, 491-504.	0.6	24
18	Extracting information from neuronal populations: information theory and decoding approaches. <i>Nature Reviews Neuroscience</i> , 2009, 10, 173-185.	4.9	657

#	ARTICLE	IF	CITATIONS
19	Spike-Phase Coding Boosts and Stabilizes Information Carried by Spatial and Temporal Spike Patterns. <i>Neuron</i> , 2009, 61, 597-608.	3.8	427
20	Inhibitory Plasticity in a Lateral Band Improves Cortical Detection of Natural Vocalizations. <i>Neuron</i> , 2009, 62, 705-716.	3.8	115
21	Frequency-Band Coupling in Surface EEG Reflects Spiking Activity in Monkey Visual Cortex. <i>Neuron</i> , 2009, 64, 281-289.	3.8	314
22	Coupling of mesoscopic brain oscillations: Recent advances in analytical and theoretical perspectives. <i>Progress in Neurobiology</i> , 2009, 89, 61-78.	2.8	60
23	Invited Review: Cryo-scanning electron microscopy (CSEM) in the advancement of functional plant biology. Morphological and anatomical applications. <i>Functional Plant Biology</i> , 2009, 36, 97.	1.1	52
24	Phase-dependent neuronal coding of objects in short-term memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21341-21346.	3.3	494
25	The Phase of Ongoing EEG Oscillations Predicts Visual Perception. <i>Journal of Neuroscience</i> , 2009, 29, 7869-7876.	1.7	1,017
26	The fMRI signal, slow cortical potential and consciousness. <i>Trends in Cognitive Sciences</i> , 2009, 13, 302-309.	4.0	318
27	Information content and robustness of various types of codes in integrate and fire networks presented with naturalistic stimuli. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	0
28	Oscillations, Phase-of-Firing Coding, and Spike Timing-Dependent Plasticity: An Efficient Learning Scheme. <i>Journal of Neuroscience</i> , 2009, 29, 13484-13493.	1.7	153
29	Methods for predicting cortical UP and DOWN states from the phase of deep layer local field potentials. <i>Journal of Computational Neuroscience</i> , 2010, 29, 49-62.	0.6	61
30	Sensory information in local field potentials and spikes from visual and auditory cortices: time scales and frequency bands. <i>Journal of Computational Neuroscience</i> , 2010, 29, 533-545.	0.6	75
31	Causal relationships between frequency bands of extracellular signals in visual cortex revealed by an information theoretic analysis. <i>Journal of Computational Neuroscience</i> , 2010, 29, 547-566.	0.6	57
32	A review of the environmental corrosion, fate and bioavailability of munitions grade depleted uranium. <i>Science of the Total Environment</i> , 2010, 408, 5690-5700.	3.9	72
33	Direct Recordings of Pitch Responses from Human Auditory Cortex. <i>Current Biology</i> , 2010, 20, 1128-1132.	1.8	100
34	Exploring the function of neural oscillations in early sensory systems. <i>Frontiers in Neuroscience</i> , 2010, 4, 53.	1.4	57
35	Open source tools for the information theoretic analysis of neural data. <i>Frontiers in Neuroscience</i> , 2010, 4, .	1.4	27
36	Field effects in the CNS play functional roles. <i>Frontiers in Neural Circuits</i> , 2010, 4, 15.	1.4	61

#	ARTICLE	IF	CITATIONS
37	Directed coupling in local field potentials of macaque V4 during visual short-term memory revealed by multivariate autoregressive models. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 14.	1.2	26
38	Time and Category Information in Pattern-Based Codes. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 145.	1.2	8
39	Binding by asynchrony: the neuronal phase code. <i>Frontiers in Neuroscience</i> , 2010, 4, .	1.4	42
40	Conversion of Phase Information into a Spike-Count Code by Bursting Neurons. <i>PLoS ONE</i> , 2010, 5, e9669.	1.1	24
41	The Influence of Natural Scene Dynamics on Auditory Cortical Activity. <i>Journal of Neuroscience</i> , 2010, 30, 13919-13931.	1.7	35
42	Sensory Input Drives Multiple Intracellular Information Streams in Somatosensory Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 10872-10884.	1.7	15
43	Periodicity and Evoked Responses in Motor Cortex. <i>Journal of Neuroscience</i> , 2010, 30, 11506-11515.	1.7	50
44	Coherence Potentials: Loss-Less, All-or-None Network Events in the Cortex. <i>PLoS Biology</i> , 2010, 8, e1000278.	2.6	40
45	Auditory Cortex Tracks Both Auditory and Visual Stimulus Dynamics Using Low-Frequency Neuronal Phase Modulation. <i>PLoS Biology</i> , 2010, 8, e1000445.	2.6	201
46	Metals, minerals and microbes: geomicrobiology and bioremediation. <i>Microbiology (United Kingdom)</i> , 2010, 156, 609-643.	0.7	1,496
47	The Temporal Structures and Functional Significance of Scale-free Brain Activity. <i>Neuron</i> , 2010, 66, 353-369.	3.8	831
48	Two views of brain function. <i>Trends in Cognitive Sciences</i> , 2010, 14, 180-190.	4.0	916
49	Sensory neural codes using multiplexed temporal scales. <i>Trends in Neurosciences</i> , 2010, 33, 111-120.	4.2	432
50	Understanding the relationships between spike rate and delta/gamma frequency bands of LFPs and EEGs using a local cortical network model. <i>NeuroImage</i> , 2010, 52, 956-972.	2.1	101
51	Neurophysiological and Computational Principles of Cortical Rhythms in Cognition. <i>Physiological Reviews</i> , 2010, 90, 1195-1268.	13.1	1,634
52	Decoding Stimulus-Reward Pairing From Local Field Potentials Recorded From Monkey Visual Cortex. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 1892-1902.	4.8	13
53	Geochemical and Microbial Controls of the Decomposition of Depleted Uranium in the Environment: Experimental Studies using Soil Microorganisms. <i>Geomicrobiology Journal</i> , 2011, 28, 457-470.	1.0	5
54	The Restless Brain. <i>Brain Connectivity</i> , 2011, 1, 3-12.	0.8	563

#	ARTICLE	IF	CITATIONS
55	Cracking the Code of Oscillatory Activity. PLoS Biology, 2011, 9, e1001064.	2.6	126
56	Dynamic brain-machine interface: A novel paradigm for bidirectional interaction between brains and dynamical systems. , 2011, 2011, 4592-5.		8
57	Ready, Set, Reset: Stimulus-Locked Periodicity in Behavioral Performance Demonstrates the Consequences of Cross-Sensory Phase Reset. Journal of Neuroscience, 2011, 31, 9971-9981.	1.7	127
58	The neuronal encoding of information in the brain. Progress in Neurobiology, 2011, 95, 448-490.	2.8	216
59	Modeling the Spatial Reach of the LFP. Neuron, 2011, 72, 859-872.	3.8	393
60	Perception of sniff phase in mouse olfaction. Nature, 2011, 479, 397-400.	13.7	212
61	Large-Scale Heterogeneous Representation of Sound Attributes in Rat Primary Auditory Cortex: From Unit Activity to Population Dynamics. Journal of Neuroscience, 2011, 31, 14639-14653.	1.7	18
62	Neural Substrates of Chronic Pain in the Thalamocortical Circuit. Nature Precedings, 2011, , .	0.1	4
63	Statistical Comparison of Spike Responses to Natural Stimuli in Monkey Area V1 With Simulated Responses of a Detailed Laminar Network Model for a Patch of V1. Journal of Neurophysiology, 2011, 105, 757-778.	0.9	25
64	Ongoing EEG Phase as a Trial-by-Trial Predictor of Perceptual and Attentional Variability. Frontiers in Psychology, 2011, 2, 60.	1.1	184
65	The Timing of Vision – How Neural Processing Links to Different Temporal Dynamics. Frontiers in Psychology, 2011, 2, 151.	1.1	10
66	Reconstructing Stimuli from the Spike Times of Leaky Integrate and Fire Neurons. Frontiers in Neuroscience, 2011, 5, 1.	1.4	224
67	A mutual information analysis of neural coding of speech by low-frequency MEG phase information. Journal of Neurophysiology, 2011, 106, 554-563.	0.9	68
68	Transmission of colour and acuity signals by parvocellular cells in marmoset monkeys. Journal of Physiology, 2011, 589, 2795-2812.	1.3	32
69	Cortical dynamics during naturalistic sensory stimulations: Experiments and models. Journal of Physiology (Paris), 2011, 105, 2-15.	2.1	64
70	A metric-based analysis of the contribution of spike timing to contrast and motion direction coding by single neurons in macaque area MT. Brain Research, 2011, 1368, 163-184.	1.1	0
71	Uranium, thorium and rare earth elements in macrofungi: what are the genuine concentrations?. BioMetals, 2011, 24, 837-845.	1.8	65
72	Auditory facilitation of visual-target detection persists regardless of retinal eccentricity and despite wide audiovisual misalignments. Experimental Brain Research, 2011, 213, 167-174.	0.7	40

#	ARTICLE	IF	CITATIONS
73	Quantifying the visual information sourced from melanopsin photoreceptors in mouse LGN field responses. BMC Neuroscience, 2011, 12, .	0.8	0
74	Does the information in the phase of low frequency LFP reflect the low frequency envelope of local spike rates?. BMC Neuroscience, 2011, 12, .	0.8	0
75	Local field potential phase and spike timing convey information about different visual features in primary visual cortex. BMC Neuroscience, 2011, 12, .	0.8	1
76	Phase-of-firing information coding in laminar cortical architecture. BMC Neuroscience, 2011, 12, .	0.8	0
77	Storage capacity of phase-coded patterns in sparse neural networks. Europhysics Letters, 2011, 95, 28006.	0.7	10
78	Saccades during Object Viewing Modulate Oscillatory Phase in the Superior Temporal Sulcus. Journal of Neuroscience, 2011, 31, 18423-18432.	1.7	43
79	The Phase of Ongoing Oscillations Mediates the Causal Relation between Brain Excitation and Visual Perception. Journal of Neuroscience, 2011, 31, 11889-11893.	1.7	318
80	Associative Memory Storage and Retrieval: Involvement of Theta Oscillations in Hippocampal Information Processing. Neural Plasticity, 2011, 2011, 1-15.	1.0	36
81	Multiplexed and Robust Representations of Sound Features in Auditory Cortex. Journal of Neuroscience, 2011, 31, 14565-14576.	1.7	112
82	Relationships among low-frequency local field potentials, spiking activity, and three-dimensional reach and grasp kinematics in primary motor and ventral premotor cortices. Journal of Neurophysiology, 2011, 105, 1603-1619.	0.9	128
83	The Role of Rhythmic Neural Synchronization in Rest and Task Conditions. Frontiers in Human Neuroscience, 2011, 5, 4.	1.0	39
85	The Laminar and Temporal Structure of Stimulus Information in the Phase of Field Potentials of Auditory Cortex. Journal of Neuroscience, 2011, 31, 15787-15801.	1.7	82
86	This Is the Rhythm of Your Eyes: The Phase of Ongoing Electroencephalogram Oscillations Modulates Saccadic Reaction Time. Journal of Neuroscience, 2011, 31, 4698-4708.	1.7	121
87	Network Rhythms Influence the Relationship between Spike-Triggered Local Field Potential and Functional Connectivity. Journal of Neuroscience, 2011, 31, 12674-12682.	1.7	93
88	The Local Field Potential Reflects Surplus Spike Synchrony. Cerebral Cortex, 2011, 21, 2681-2695.	1.6	130
89	The Geomicrobiology of Radionuclides. Geomicrobiology Journal, 2011, 28, 383-386.	1.0	29
90	INFORMATION QUANTIFICATION OF EMPIRICAL MODE DECOMPOSITION AND APPLICATIONS TO FIELD POTENTIALS. International Journal of Neural Systems, 2011, 21, 49-63.	3.2	8
91	Saccade-Related Modulations of Neuronal Excitability Support Synchrony of Visually Elicited Spikes. Cerebral Cortex, 2011, 21, 2482-2497.	1.6	127

#	ARTICLE	IF	CITATIONS
92	Different Origins of Gamma Rhythm and High-Gamma Activity in Macaque Visual Cortex. PLoS Biology, 2011, 9, e1000610.	2.6	851
93	Analysis of Slow (Theta) Oscillations as a Potential Temporal Reference Frame for Information Coding in Sensory Cortices. PLoS Computational Biology, 2012, 8, e1002717.	1.5	98
94	Dynamic Effective Connectivity of Inter-Areal Brain Circuits. PLoS Computational Biology, 2012, 8, e1002438.	1.5	133
95	Noradrenergic Neurons of the Locus Coeruleus Are Phase Locked to Cortical Up-Down States during Sleep. Cerebral Cortex, 2012, 22, 426-435.	1.6	170
96	Grid cells in rat entorhinal cortex encode physical space with independent firing fields and phase precession at the single-trial level. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6301-6306.	3.3	56
97	Learning Shapes Spatiotemporal Brain Patterns for Flexible Categorical Decisions. Cerebral Cortex, 2012, 22, 2322-2335.	1.6	21
98	A Precluding But Not Ensuring Role of Entrained Low-Frequency Oscillations for Auditory Perception. Journal of Neuroscience, 2012, 32, 12268-12276.	1.7	171
99	Category-selective phase coding in the superior temporal sulcus. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19438-19443.	3.3	40
100	Stochastic Generation of Gamma-Band Activity in Primary Visual Cortex of Awake and Anesthetized Monkeys. Journal of Neuroscience, 2012, 32, 13873-13880a.	1.7	121
101	Learning Acts on Distinct Processes for Visual Form Perception in the Human Brain. Journal of Neuroscience, 2012, 32, 775-786.	1.7	32
103	A quantitative analysis of information about past and present stimuli encoded by spikes of A1 neurons. Journal of Neurophysiology, 2012, 108, 1366-1380.	0.9	39
104	Integrating information from different senses in the auditory cortex. Biological Cybernetics, 2012, 106, 617-625.	0.6	22
105	Local field potentials and border ownership: A conjecture about computation in visual cortex. Journal of Physiology (Paris), 2012, 106, 297-315.	2.1	15
106	An oscillatory mechanism for prioritizing salient unattended stimuli. Trends in Cognitive Sciences, 2012, 16, 200-206.	4.0	383
107	Optimal band separation of extracellular field potentials. Journal of Neuroscience Methods, 2012, 210, 66-78.	1.3	17
108	A novel test to determine the significance of neural selectivity to single and multiple potentially correlated stimulus features. Journal of Neuroscience Methods, 2012, 210, 49-65.	1.3	44
109	Temporal context in speech processing and attentional stream selection: A behavioral and neural perspective. Brain and Language, 2012, 122, 151-161.	0.8	138
110	The Functional Importance of Rhythmic Activity in the Brain. Current Biology, 2012, 22, R658-R663.	1.8	329

#	ARTICLE	IF	CITATIONS
111	The Chronotron: A Neuron That Learns to Fire Temporally Precise Spike Patterns. PLoS ONE, 2012, 7, e40233.	1.1	156
112	Stimulus-Entrained Oscillatory Activity Propagates as Waves from Area 18 to 17 in Cat Visual Cortex. PLoS ONE, 2012, 7, e41960.	1.1	8
113	Biogenic volatile compounds of activated sludge and their application for metal bioremediation. African Journal of Biotechnology, 2012, 11, .	0.3	0
114	Relative spike time coding and STDP-based orientation selectivity in the early visual system in natural continuous and saccadic vision: a computational model. Journal of Computational Neuroscience, 2012, 32, 425-441.	0.6	36
115	Improved measures of phase-coupling between spikes and the Local Field Potential. Journal of Computational Neuroscience, 2012, 33, 53-75.	0.6	127
116	Lead Transformation to Pyromorphite by Fungi. Current Biology, 2012, 22, 237-241.	1.8	99
117	Geomycology: metals, actinides and biominerals. Environmental Microbiology Reports, 2012, 4, 270-296.	1.0	132
118	A Multichannel Integrated Circuit for Electrical Recording of Neural Activity, With Independent Channel Programmability. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 101-110.	2.7	66
119	Biotransformation of manganese oxides by fungi: solubilization and production of manganese oxalate biominerals. Environmental Microbiology, 2012, 14, 1744-1753.	1.8	63
120	Muscarinic Signaling in the Brain. Annual Review of Neuroscience, 2013, 36, 271-294.	5.0	111
122	Innovations for Shape Analysis. Mathematics and Visualization, 2013, , .	0.4	5
123	Phase-of-firing coding of dynamical whisker stimuli and the thalamocortical code in barrel cortex. BMC Neuroscience, 2013, 14, .	0.8	2
124	Coding of Information in the Phase of Local Field Potentials within Human Medial Temporal Lobe. Neuron, 2013, 79, 594-606.	3.8	40
125	Modelling and analysis of local field potentials for studying the function of cortical circuits. Nature Reviews Neuroscience, 2013, 14, 770-785.	4.9	693
126	The impact of warfare on the soil environment. Earth-Science Reviews, 2013, 127, 1-15.	4.0	88
127	Molecular Environmental Soil Science. , 2013, , .		3
128	Fungal biotransformation of zinc silicate and sulfide mineral ores. Environmental Microbiology, 2013, 15, 2173-2186.	1.8	49
129	Orienting Towards Ensembles: From Single Cells to Neural Populations. Journal of Neuroscience, 2013, 33, 2-3.	1.7	4

#	ARTICLE	IF	CITATIONS
130	EEG and MEG: Relevance to Neuroscience. <i>Neuron</i> , 2013, 80, 1112-1128.	3.8	683
131	Gamma and the Coordination of Spiking Activity in Early Visual Cortex. <i>Neuron</i> , 2013, 77, 762-774.	3.8	155
132	Information coding in a laminar computational model of cat primary visual cortex. <i>Journal of Computational Neuroscience</i> , 2013, 34, 273-283.	0.6	8
133	Fear Conditioning Enhances Gamma Oscillations and Their Entrainment of Neurons Representing the Conditioned Stimulus. <i>Journal of Neuroscience</i> , 2013, 33, 5705-5717.	1.7	64
134	Associative memory of phase-coded spatiotemporal patterns in leaky Integrate and Fire networks. <i>Journal of Computational Neuroscience</i> , 2013, 34, 319-336.	0.6	13
135	Distance Images and the Enclosure Field: Applications in Intermediate-Level Computer and Biological Vision. <i>Mathematics and Visualization</i> , 2013, , 301-323.	0.4	4
136	Cortical gamma oscillations: the functional key is activation, not cognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 401-417.	2.9	136
137	Activation of Serotonin 2A Receptors Underlies the Psilocybin-Induced Effects on Δ Oscillations, N170 Visual-Evoked Potentials, and Visual Hallucinations. <i>Journal of Neuroscience</i> , 2013, 33, 10544-10551.	1.7	240
138	Accurate decoding of sub-TR timing differences in stimulations of sub-voxel regions from multi-voxel response patterns. <i>NeuroImage</i> , 2013, 66, 623-633.	2.1	11
139	Geomycology: Fungi as Agents of Biogeochemical Change. <i>Biology and Environment</i> , 2013, 113, 1-15.	0.2	10
140	Biodegradation of ivory (natural apatite): possible involvement of fungal activity in biodeterioration of the <i>Lewis Chessmen</i> . <i>Environmental Microbiology</i> , 2013, 15, 1050-1062.	1.8	30
141	EEG Phase Patterns Reflect the Selectivity of Neural Firing. <i>Cerebral Cortex</i> , 2013, 23, 389-398.	1.6	128
142	Frequency Dependence of Signal Power and Spatial Reach of the Local Field Potential. <i>PLoS Computational Biology</i> , 2013, 9, e1003137.	1.5	133
143	Neuronal Functional Connection Graphs among Multiple Areas of the Rat Somatosensory System during Spontaneous and Evoked Activities. <i>PLoS Computational Biology</i> , 2013, 9, e1003104.	1.5	15
144	The Feature Selectivity of the Phase of the Local Field Potential in the Primary Visual Cortex. <i>Advanced Materials Research</i> , 2013, 749, 333-337.	0.3	0
145	Cortical speech-evoked response patterns in multiple auditory fields are correlated with behavioral discrimination ability. <i>Journal of Neurophysiology</i> , 2013, 110, 177-189.	0.9	41
147	Controlling the oscillation phase through precisely timed closed-loop optogenetic stimulation: a computational study. <i>Frontiers in Neural Circuits</i> , 2013, 7, 49.	1.4	48
148	Cross-frequency interaction of the eye-movement related LFP signals in V1 of freely viewing monkeys. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 1.	1.2	216

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149	Saccades during visual exploration align hippocampal θ (8 Hz) rhythms in human and non-human primates. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 43.	1.2	88
150	Understanding Neural Population Coding: Information Theoretic Insights from the Auditory System. <i>Advances in Neuroscience (Hindawi)</i> , 2014, 2014, 1-14.	3.1	10
151	Alpha- and beta-band oscillations subserve different processes in reactive control of limb movements. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 383.	1.0	28
152	Influence of extracellular oscillations on neural communication: a computational perspective. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 9.	1.2	6
153	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 36.	1.2	56
154	Local Field Potentials in the Gustatory Cortex Carry Taste Information. <i>Journal of Neuroscience</i> , 2014, 34, 8778-8787.	1.7	16
155	Coordinated within-Trial Dynamics of Low-Frequency Neural Rhythms Controls Evidence Accumulation. <i>Journal of Neuroscience</i> , 2014, 34, 8519-8528.	1.7	29
156	Oscillations and Behavior. , 2014, , 268-281.		2
157	Functions of gamma-band synchronization in cognition: from single circuits to functional diversity across cortical and subcortical systems. <i>European Journal of Neuroscience</i> , 2014, 39, 1982-1999.	1.2	175
158	Pyromorphite formation in a fungal biofilm community growing on lead metal. <i>Environmental Microbiology</i> , 2014, 16, 1441-1451.	1.8	37
159	Effects of natural resource development on the terrestrial biodiversity of Canadian boreal forests. <i>Environmental Reviews</i> , 2014, 22, 457-490.	2.1	152
160	Oscillations can reconcile slowly changing stimuli with short neuronal integration and STDP timescales. <i>Network: Computation in Neural Systems</i> , 2014, 25, 85-96.	2.2	2
161	Bioaccumulation and biosorption of inorganic nanoparticles: factors affecting the efficiency of nanoparticle mycoextraction by liquid-grown mycelia of <i>Pleurotus eryngii</i> and <i>Trametes versicolor</i> . <i>Mycological Progress</i> , 2014, 13, 525-532.	0.5	21
162	Timing of Single-Neuron and Local Field Potential Responses in the Human Medial Temporal Lobe. <i>Current Biology</i> , 2014, 24, 299-304.	1.8	60
163	Reading spike timing without a clock: intrinsic decoding of spike trains. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20120467.	1.8	44
164	Fungal transformation of metallic lead to pyromorphite in liquid medium. <i>Chemosphere</i> , 2014, 113, 17-21.	4.2	32
165	A New Class of Metrics for Spike Trains. <i>Neural Computation</i> , 2014, 26, 306-348.	1.3	19
166	Stimulus Dependence of Local Field Potential Spectra: Experiment versus Theory. <i>Journal of Neuroscience</i> , 2014, 34, 14589-14605.	1.7	48

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167	On the possible role of macrofungi in the biogeochemical fate of uranium in polluted forest soils. <i>Journal of Hazardous Materials</i> , 2014, 280, 79-88.	6.5	25
168	Oxalate production by fungi: significance in geomycology, biodeterioration and bioremediation. <i>Fungal Biology Reviews</i> , 2014, 28, 36-55.	1.9	291
169	Bursting neurons in the hippocampal formation convey information about LFP features. <i>BMC Neuroscience</i> , 2014, 15, .	0.8	1
170	Interaction of U(VI) with <i>Schizophyllum commune</i> studied by microscopic and spectroscopic methods. <i>BioMetals</i> , 2014, 27, 775-785.	1.8	23
171	Identifying and Quantifying Multisensory Integration: A Tutorial Review. <i>Brain Topography</i> , 2014, 27, 707-730.	0.8	159
172	Temporal coding organized by coupled alpha and gamma oscillations prioritize visual processing. <i>Trends in Neurosciences</i> , 2014, 37, 357-369.	4.2	358
173	Hypothesis-driven methods to augment human cognition by optimizing cortical oscillations. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 119.	1.2	18
174	Experience-dependent emergence of beta and gamma band oscillations in the primary visual cortex during the critical period. <i>Scientific Reports</i> , 2015, 5, 17847.	1.6	33
175	<sc>C</sc>a<sc>CO</sc>₃ and <sc>S</sc>r<sc>CO</sc>₃ bioprecipitation by fungi isolated from calcareous soil. <i>Environmental Microbiology</i> , 2015, 17, 3082-3097.	1.8	82
176	Revealing neuronal function through microelectrode array recordings. <i>Frontiers in Neuroscience</i> , 2014, 8, 423.	1.4	493
177	Contribution of LFP dynamics to single-neuron spiking variability in motor cortex during movement execution. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 89.	1.2	21
178	Information transfer by local field potentials in the hippocampal formation. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0
179	Speech encoding by coupled cortical theta and gamma oscillations. <i>ELife</i> , 2015, 4, e06213.	2.8	140
180	Rhythmic Auditory Cortex Activity at Multiple Timescales Shapes Stimulus-Response Gain and Background Firing. <i>Journal of Neuroscience</i> , 2015, 35, 7750-7762.	1.7	70
181	Fungal Bioweathering of Mimetite and a General Geomycological Model for Lead Apatite Mineral Biotransformations. <i>Applied and Environmental Microbiology</i> , 2015, 81, 4955-4964.	1.4	30
182	Frequency-band signatures of visual responses to naturalistic input in ferret primary visual cortex during free viewing. <i>Brain Research</i> , 2015, 1598, 31-45.	1.1	12
183	Uranium phosphate biomineralization by fungi. <i>Environmental Microbiology</i> , 2015, 17, 2064-2075.	1.8	75
184	Neural population coding: combining insights from microscopic and mass signals. <i>Trends in Cognitive Sciences</i> , 2015, 19, 162-172.	4.0	178

#	ARTICLE	IF	CITATIONS
185	Spatial consistency of neural firing regulates long-range local field potential synchronization: A computational study. <i>Neural Networks</i> , 2015, 62, 52-61.	3.3	3
186	Local Field Potentials Encode Place Cell Ensemble Activation during Hippocampal Sharp Wave Ripples. <i>Neuron</i> , 2015, 87, 590-604.	3.8	57
187	Input-Dependent Frequency Modulation of Cortical Gamma Oscillations Shapes Spatial Synchronization and Enables Phase Coding. <i>PLoS Computational Biology</i> , 2015, 11, e1004072.	1.5	56
188	Listening to another sense: somatosensory integration in the auditory system. <i>Cell and Tissue Research</i> , 2015, 361, 233-250.	1.5	55
189	Temporal-Pattern Similarity Analysis Reveals the Beneficial and Detrimental Effects of Context Reinstatement on Human Memory. <i>Journal of Neuroscience</i> , 2015, 35, 5373-5384.	1.7	57
190	Age-Related Changes in <i>Neural Electrophysiological Noise</i> . <i>Journal of Neuroscience</i> , 2015, 35, 13257-13265.	1.7	479
191	Packet-based communication in the cortex. <i>Nature Reviews Neuroscience</i> , 2015, 16, 745-755.	4.9	160
192	Beta oscillations define discrete perceptual cycles in the somatosensory domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12187-12192.	3.3	103
193	Phase-locking of bursting neuronal firing to dominant LFP frequency components. <i>BioSystems</i> , 2015, 136, 73-79.	0.9	7
194	The Yin and Yang of Sleep and Attention. <i>Trends in Neurosciences</i> , 2015, 38, 776-786.	4.2	62
195	Single trial analysis of field potentials in perception, learning and memory. <i>Current Opinion in Neurobiology</i> , 2015, 31, 148-155.	2.0	28
197	Learning-Stage-Dependent Plasticity of Temporal Coherence in the Auditory Cortex of Rats. <i>Brain Topography</i> , 2015, 28, 401-410.	0.8	8
198	Bursting Neurons in the Hippocampal Formation Encode Features of LFP Rhythms. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 133.	1.2	13
199	Sensory Entrainment Mechanisms in Auditory Perception: Neural Synchronization Cortico-Striatal Activation. <i>Frontiers in Neuroscience</i> , 2016, 10, 361.	1.4	24
200	A Role of Phase-Resetting in Coordinating Large Scale Neural Networks During Attention and Goal-Directed Behavior. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 18.	1.2	82
201	Brain Oscillations in Sport: Toward EEG Biomarkers of Performance. <i>Frontiers in Psychology</i> , 2016, 7, 246.	1.1	127
202	A biologically plausible mechanism for neuronal coding organized by the phase of alpha oscillations. <i>European Journal of Neuroscience</i> , 2016, 44, 2147-2161.	1.2	33
203	Serotonergic Hallucinogen-Induced Visual Perceptual Alterations. <i>Current Topics in Behavioral Neurosciences</i> , 2016, 36, 257-282.	0.8	78

#	ARTICLE	IF	CITATIONS
204	Brain-inspired speech segmentation for automatic speech recognition using the speech envelope as a temporal reference. <i>Scientific Reports</i> , 2016, 6, 37647.	1.6	8
205	Inferring Cortical Variability from Local Field Potentials. <i>Journal of Neuroscience</i> , 2016, 36, 4121-4135.	1.7	46
206	Phosphatase-mediated bioprecipitation of lead by soil fungi. <i>Environmental Microbiology</i> , 2016, 18, 219-231.	1.8	55
207	Uranium bioprecipitation mediated by yeasts utilizing organic phosphorus substrates. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5141-5151.	1.7	48
208	Distinct Subthreshold Mechanisms Underlying Rate-Coding Principles in Primate Auditory Cortex. <i>Neuron</i> , 2016, 91, 905-919.	3.8	44
209	Fungal Applications in Sustainable Environmental Biotechnology. <i>Fungal Biology</i> , 2016, , .	0.3	16
210	High-frequency neural activity predicts word parsing in ambiguous speech streams. <i>Journal of Neurophysiology</i> , 2016, 116, 2497-2512.	0.9	51
211	Temporal coding of reward-guided choice in the posterior parietal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13492-13497.	3.3	35
212	Phase Locking of Multiple Single Neurons to the Local Field Potential in Cat V1. <i>Journal of Neuroscience</i> , 2016, 36, 2494-2502.	1.7	27
213	Representation of memories in the cortical "hippocampal system: Results from the application of population similarity analyses. <i>Neurobiology of Learning and Memory</i> , 2016, 134, 178-191.	1.0	40
214	EEG phase patterns reflect the representation of semantic categories of objects. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 205-221.	1.6	16
215	Spontaneous Fluctuations in Visual Cortical Responses Influence Population Coding Accuracy. <i>Cerebral Cortex</i> , 2017, 27, 1409-1427.	1.6	27
216	Phase analysis method for burst onset prediction. <i>Physical Review E</i> , 2017, 95, 022412.	0.8	0
217	From intentions to actions: Neural oscillations encode motor processes through phase, amplitude and phase-amplitude coupling. <i>NeuroImage</i> , 2017, 147, 473-487.	2.1	60
218	High-Throughput Analysis of in-vitro LFP Electrophysiological Signals: A validated workflow/software package. <i>Scientific Reports</i> , 2017, 7, 3055.	1.6	7
219	Luminance information decoding on the basis of local field potential signals of pigeon optic tectum neurons. <i>NeuroReport</i> , 2017, 28, 1036-1042.	0.6	6
220	Metal and metalloid biorecovery using fungi. <i>Microbial Biotechnology</i> , 2017, 10, 1199-1205.	2.0	74
221	Sequential hemifield gating of $\hat{1}\pm$ - and $\hat{1}^2$ -behavioral performance oscillations after microsaccades. <i>Journal of Neurophysiology</i> , 2017, 118, 2789-2805.	0.9	53

#	ARTICLE	IF	CITATIONS
222	Visual cortex responses reflect temporal structure of continuous quasi-rhythmic sensory stimulation. <i>NeuroImage</i> , 2017, 146, 58-70.	2.1	51
223	Artefactual origin of biphasic cortical spike-LFP correlation. <i>Journal of Computational Neuroscience</i> , 2017, 42, 31-35.	0.6	8
224	Distinct Inhibitory Circuits Orchestrate Cortical beta and gamma Band Oscillations. <i>Neuron</i> , 2017, 96, 1403-1418.e6.	3.8	256
225	Emergence of transformation-tolerant representations of visual objects in rat lateral extrastriate cortex. <i>ELife</i> , 2017, 6, .	2.8	49
226	The pairwise phase consistency in cortical network and its relationship with neuronal activation. <i>BIO Web of Conferences</i> , 2017, 8, 02006.	0.1	0
227	On Information Metrics for Spatial Coding. <i>Neuroscience</i> , 2018, 375, 62-73.	1.1	39
228	EEG Signatures of Dynamic Functional Network Connectivity States. <i>Brain Topography</i> , 2018, 31, 101-116.	0.8	196
229	What is changing when: Decoding visual information in movies from human intracranial recordings. <i>NeuroImage</i> , 2018, 180, 147-159.	2.1	16
230	Metal transformation as a strategy for bacterial detoxification of heavy metals. <i>Journal of Basic Microbiology</i> , 2018, 58, 17-29.	1.8	17
231	CHARACTERIZING UNOBSERVED FACTORS DRIVING LOCAL FIELD POTENTIAL DYNAMICS UNDERLYING A TIME-VARYING SPIKE GENERATION. , 2018, , .		2
232	Multiscale dynamics of interstimulus interval integration in visual cortex. <i>PLoS ONE</i> , 2018, 13, e0208822.	1.1	1
233	Single unit activities recorded in the thalamus and the overlying parietal cortex of subjects affected by disorders of consciousness. <i>PLoS ONE</i> , 2018, 13, e0205967.	1.1	7
234	Natural image reconstruction on the basis of local field potential signals of pigeon optic tectum neurons. <i>NeuroReport</i> , 2018, 29, 1092-1098.	0.6	1
235	Modeling Oscillatory Phase and Phase Synchronization With Neuronal Excitation and Input Strength in Cortical Network. <i>IEEE Access</i> , 2018, 6, 36441-36458.	2.6	2
236	Neuronal coding of multiscale temporal features in communication sequences within the bat auditory cortex. <i>Communications Biology</i> , 2018, 1, 200.	2.0	37
237	Neural Oscillations and the Initiation of Voluntary Movement. <i>Frontiers in Psychology</i> , 2018, 9, 2509.	1.1	30
238	Non-monotonic accumulation of spike time variance during membrane potential oscillations. <i>Biological Cybernetics</i> , 2018, 112, 539-545.	0.6	1
239	Roles of Brain Criticality and Multiscale Oscillations in Temporal Predictions for Sensorimotor Processing. <i>Trends in Neurosciences</i> , 2018, 41, 729-743.	4.2	94

#	ARTICLE	IF	CITATIONS
240	Information-Theoretical Analysis of the Neural Code in the Rodent Temporal Lobe. <i>Entropy</i> , 2018, 20, 571.	1.1	2
241	Deep Learning With Spiking Neurons: Opportunities and Challenges. <i>Frontiers in Neuroscience</i> , 2018, 12, 774.	1.4	409
242	Sensory Processing Across Conscious and Nonconscious Brain States: From Single Neurons to Distributed Networks for Inferential Representation. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 49.	1.2	32
243	Responsive Neural Activities in the Primary Visual Cortex of Retina-Degenerated Rats. <i>Neuroscience</i> , 2018, 383, 84-97.	1.1	7
244	Representational interactions during audiovisual speech entrainment: Redundancy in left posterior superior temporal gyrus and synergy in left motor cortex. <i>PLoS Biology</i> , 2018, 16, e2006558.	2.6	54
245	Oscillatory Dynamics of Perceptual to Conceptual Transformations in the Ventral Visual Pathway. <i>Journal of Cognitive Neuroscience</i> , 2018, 30, 1590-1605.	1.1	26
246	Hysteresis, neural avalanches, and critical behavior near a first-order transition of a spiking neural network. <i>Physical Review E</i> , 2018, 97, 062305.	0.8	48
247	Infraslow State Fluctuations Govern Spontaneous fMRI Network Dynamics. <i>Current Biology</i> , 2019, 29, 2295-2306.e5.	1.8	107
248	Phase relationship between micro-electrocorticography and cortical neurons. <i>Journal of Neural Engineering</i> , 2019, 16, 066028.	1.8	6
249	The Functional Role of Critical Dynamics in Neural Systems. <i>Springer Series on Bio- and Neurosystems</i> , 2019, , .	0.2	8
250	Dynamic Computation in Visual Thalamocortical Networks. <i>Entropy</i> , 2019, 21, 500.	1.1	9
251	Routing information flow by separate neural synchrony frequencies allows for functionally labeled lines in higher primate cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12506-12515.	3.3	29
252	Thalamic Drive of Cortical Parvalbumin-Positive Interneurons during Down States in Anesthetized Mice. <i>Current Biology</i> , 2019, 29, 1481-1490.e6.	1.8	45
253	Electrophysiological Brain Connectivity: Theory and Implementation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2115-2137.	2.5	163
254	Widespread temporal coding of cognitive control in the human prefrontal cortex. <i>Nature Neuroscience</i> , 2019, 22, 1883-1891.	7.1	77
255	Effect of depleted uranium on a soil microcosm fungal community and influence of a plant-ectomycorrhizal association. <i>Fungal Biology</i> , 2020, 124, 289-296.	1.1	6
256	Biorecovery of cobalt and nickel using biomass-free culture supernatants from <i>Aspergillus niger</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 417-425.	1.7	20
257	Biocorrosion of copper metal by <i>Aspergillus niger</i> . <i>International Biodeterioration and Biodegradation</i> , 2020, 154, 105081.	1.9	14

#	ARTICLE	IF	CITATIONS
258	Parallel Neural Multiprocessing with Gamma Frequency Latencies. <i>Neural Computation</i> , 2020, 32, 1635-1663.	1.3	1
259	T2FSNN: Deep Spiking Neural Networks with Time-to-first-spike Coding. , 2020, , .		51
260	Local field potential phase modulates neural responses to intracortical electrical stimulation. , 2020, 2020, 3521-3524.		3
261	Prediction of Cognitive Task Activations via Resting-State Functional Connectivity Networks: An EEG Study. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 181-188.	2.6	1
262	The (Un)Conscious Mouse as a Model for Human Brain Functions: Key Principles of Anesthesia and Their Impact on Translational Neuroimaging. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 8.	1.2	45
263	Simultaneous spike-time locking to multiple frequencies. <i>Journal of Neurophysiology</i> , 2020, 123, 2355-2372.	0.9	7
264	Conscious perception of flickering stimuli in binocular rivalry and continuous flash suppression is not affected by tACS-induced SSR modulation. <i>Consciousness and Cognition</i> , 2020, 82, 102953.	0.8	0
265	Phase-Coded Oscillatory Ordering Promotes the Separation of Closely Matched Representations to Optimize Perceptual Discrimination. <i>IScience</i> , 2020, 23, 101282.	1.9	12
266	Spike Phase Shift Relative to Beta Oscillations Mediates Modality Selection. <i>Cerebral Cortex</i> , 2020, 30, 5431-5448.	1.6	3
267	Functional asymmetry of local connections in V1 and its impact on orientation tuning. <i>Procedia Computer Science</i> , 2020, 169, 620-639.	1.2	2
268	Soft Computing for Problem Solving 2019. <i>Advances in Intelligent Systems and Computing</i> , 2020, , .	0.5	0
269	Coupling Laccase production from <i>Trametes pubescence</i> with heavy metal removal for Economic Waste Water Treatment. <i>Journal of Water Process Engineering</i> , 2020, 37, 101357.	2.6	23
270	Advantages and detection of phase coding in the absence of rhythmicity. <i>Hippocampus</i> , 2020, 30, 745-762.	0.9	24
271	A Group Analysis of Oscillatory Phase and Phase Synchronization in Cortical Networks. <i>IEEE Access</i> , 2020, 8, 59182-59199.	2.6	2
272	Fronto-Temporal Coupling Dynamics During Spontaneous Activity and Auditory Processing in the Bat <i>Carollia perspicillata</i> . <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 14.	1.2	12
274	Enhanced representation of natural sound sequences in the ventral auditory midbrain. <i>Brain Structure and Function</i> , 2021, 226, 207-223.	1.2	1
275	Oscillations as a window into neuronal mechanisms underlying dorsal anterior cingulate cortex function. <i>International Review of Neurobiology</i> , 2021, 158, 311-335.	0.9	3
277	Collective Dynamics of Neural Networks With Sleep-Related Biological Drives in <i>Drosophila</i> . <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 616193.	1.2	2

#	ARTICLE	IF	CITATIONS
278	Brain-Inspired Spiking Neural Networks. , 0, , .		2
279	State-dependent entrainment of cerebellar nuclear neurons to the local field potential during voluntary movements. <i>Journal of Neurophysiology</i> , 2021, 126, 112-122.	0.9	5
280	A Survey of Encoding Techniques for Signal Processing in Spiking Neural Networks. <i>Neural Processing Letters</i> , 2021, 53, 4693-4710.	2.0	55
281	Cortical Synchrony as a Mechanism of Collinear Facilitation and Suppression in Early Visual Cortex. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 670702.	1.2	1
282	Phase-dependent offline enhancement of human motor memory. <i>Brain Stimulation</i> , 2021, 14, 873-883.	0.7	11
283	Temporal Variabilities Provide Additional Category-Related Information in Object Category Decoding: A Systematic Comparison of Informative EEG Features. <i>Neural Computation</i> , 2021, 33, 1-46.	1.3	6
284	An oscillatory pipelining mechanism supporting previewing during visual exploration and reading. <i>Trends in Cognitive Sciences</i> , 2021, 25, 1033-1044.	4.0	14
285	Frequency-dependent effects of EEG phase resetting on reaction time. <i>Neuroscience Research</i> , 2021, 172, 51-62.	1.0	2
286	Brain Function: Novel Technologies Driving Novel Understanding. , 2014, , 299-334.		6
287	Reconstruction of movement-related intracortical activity from micro-electrocorticogram array signals in monkey primary motor cortex. <i>Journal of Neural Engineering</i> , 2012, 9, 036006.	1.8	30
288	4.1 Linking Band-Limited Cortical Activity to fMRI and Behavior. , 2010, , 271-294.		11
289	The Oxford Handbook of Perceptual Organization. , 2015, , .		58
293	Timing Precision in Population Coding of Natural Scenes in the Early Visual System. <i>PLoS Biology</i> , 2008, 6, e324.	2.6	48
294	Shifts of Gamma Phase across Primary Visual Cortical Sites Reflect Dynamic Stimulus-Modulated Information Transfer. <i>PLoS Biology</i> , 2015, 13, e1002257.	2.6	95
295	Predicting Spike Occurrence and Neuronal Responsiveness from LFPs in Primary Somatosensory Cortex. <i>PLoS ONE</i> , 2012, 7, e35850.	1.1	17
296	Context Matters: The Illusive Simplicity of Macaque V1 Receptive Fields. <i>PLoS ONE</i> , 2012, 7, e39699.	1.1	17
297	Is Transcranial Alternating Current Stimulation Effective in Modulating Brain Oscillations?. <i>PLoS ONE</i> , 2013, 8, e56589.	1.1	92
298	Neural Avalanches at the Critical Point between Replay and Non-Replay of Spatiotemporal Patterns. <i>PLoS ONE</i> , 2013, 8, e64162.	1.1	42

#	ARTICLE	IF	CITATIONS
299	Network Bursting Dynamics in Excitatory Cortical Neuron Cultures Results from the Combination of Different Adaptive Mechanism. PLoS ONE, 2013, 8, e75824.	1.1	36
300	Spatial computation with gamma oscillations. Frontiers in Systems Neuroscience, 2014, 8, 165.	1.2	3
301	An inhibitory gate for state transition in cortex. ELife, 2017, 6, .	2.8	83
302	Optimizing Deeper Spiking Neural Networks for Dynamic Vision Sensing. Neural Networks, 2021, 144, 686-698.	3.3	39
303	Intrinsic Activity and Consciousness. Research and Perspectives in Neurosciences, 2011, , 147-160.	0.4	0
306	Information Encoding and Reconstruction by Phase Coding of Spikes. Springer Series in Computational Neuroscience, 2015, , 269-298.	0.3	0
308	Auditory Stimuli Coding by Postsynaptic Potential and Local Field Potential Features. PLoS ONE, 2016, 11, e0160089.	1.1	2
311	Local Field Potential, Phase Coding. , 2018, , 1-7.		0
313	Critical Behavior and Memory Function in a Model of Spiking Neurons with a Reservoir of Spatio-Temporal Patterns. Springer Series on Bio- and Neurosystems, 2019, , 179-197.	0.2	2
317	Temporal Convolution in Spiking Neural Networks: A Bio-mimetic Paradigm. Advances in Intelligent Systems and Computing, 2020, , 211-222.	0.5	0
319	A Model for the Study of the Increase in Stimulus and Change Point Detection with Small and Variable Spiking Delays. Neural Computation, 2020, 32, 1277-1321.	1.3	0
320	Analysis of Non-stationary Neurobiological Signals Using Empirical Mode Decomposition. Lecture Notes in Computer Science, 2008, , 714-721.	1.0	0
322	Neural oscillations are locked to birdsong rhythms in canaries. European Journal of Neuroscience, 2022, 55, 549-565.	1.2	2
323	2022 roadmap on neuromorphic computing and engineering. Neuromorphic Computing and Engineering, 2022, 2, 022501.	2.8	217
326	High Fidelity Theta Phase Rolling of CA1 Neurons. Journal of Neuroscience, 2022, 42, 3184-3196.	1.7	12
327	When the Whole Is Less Than the Sum of Its Parts: Maximum Object Category Information and Behavioral Prediction in Multiscale Activation Patterns. Frontiers in Neuroscience, 2022, 16, 825746.	1.4	4
330	Rate Coding Or Direct Coding: Which One Is Better For Accurate, Robust, And Energy-Efficient Spiking Neural Networks?. , 2022, , .		17
331	Spiking Neural Networks: A Survey. IEEE Access, 2022, 10, 60738-60764.	2.6	21

#	ARTICLE	IF	CITATIONS
332	The superior colliculus/lateral posterior thalamic nuclei in mice rapidly transmit fear visual information through the theta frequency band. <i>Neuroscience</i> , 2022, , .	1.1	2
333	Spike-γ Gamma Phase Relationship in the Visual Cortex. <i>Annual Review of Vision Science</i> , 2022, 8, 361-381.	2.3	4
334	Voluntary Motor Command Release Coincides with Restricted Sensorimotor Beta Rhythm Phases. <i>Journal of Neuroscience</i> , 2022, 42, 5771-5781.	1.7	8
335	Local Field Potential, Phase Coding. , 2022, , 1846-1852.		0
336	Shared and Task-Specific Phase Coding Characteristics of Gamma- and Theta-Bands in Speech Perception and Covert Speech. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
338	Distinct interacting cortical networks for stimulus-response and repetition-suppression. <i>Communications Biology</i> , 2022, 5, .	2.0	0
339	High-frequency oscillations in the ripple bands and amplitude information coding: Toward a biomarker of maximum entropy in the preictal signals. <i>Chaos</i> , 2022, 32, .	1.0	3
340	Neural synchrony in cortical networks: mechanisms and implications for neural information processing and coding. <i>Frontiers in Integrative Neuroscience</i> , 0, 16, .	1.0	3
343	Spike encoding techniques for IoT time-varying signals benchmarked on a neuromorphic classification task. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	6
344	Binary operations on neuromorphic hardware with application to linear algebraic operations and stochastic equations. <i>Neuromorphic Computing and Engineering</i> , 2023, 3, 014002.	2.8	1
345	Precise Spiking Motifs in Neurobiological and Neuromorphic Data. <i>Brain Sciences</i> , 2023, 13, 68.	1.1	3
346	Shared and task-specific phase coding characteristics of gamma- and theta-bands in speech perception and covert speech. <i>Speech Communication</i> , 2023, 147, 63-73.	1.6	0
353	Spiking Neural Encoding and Hardware Implementations for Neuromorphic Computing. <i>Artificial Intelligence</i> , 0, , .	2.0	0