Paul H E Tiesinga

List of Publications by Year
in descending order

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43 papers	2,679 citations	430874 18 h-index	243625 44 g-index
47 all docs	47 docs citations	47 times ranked	3607 citing authors

#	Article	IF	Citations
1	Cortical Enlightenment: Are Attentional Gamma Oscillations Driven by ING or PING?. Neuron, 2009, 63, 727-732.	8.1	381
2	Regulation of spike timing in visual cortical circuits. Nature Reviews Neuroscience, 2008, 9, 97-107.	10.2	313
3	Dynamic circuit motifs underlying rhythmic gain control, gating and integration. Nature Neuroscience, 2014, 17, 1031-1039.	14.8	294
4	The Scalable Brain Atlas: Instant Web-Based Access to Public Brain Atlases and Related Content. Neuroinformatics, 2015, 13, 353-366.	2.8	245
5	Robust Gamma Coherence between Macaque V1 and V2 by Dynamic Frequency Matching. Neuron, 2013, 78, 523-536.	8.1	234
6	Discovering Spike Patterns in Neuronal Responses. Journal of Neuroscience, 2004, 24, 2989-3001.	3.6	177
7	Where is Cingulate Cortex? A Cross-Species View. Trends in Neurosciences, 2020, 43, 285-299.	8.6	150
8	Attentional modulation of firing rate and synchrony in a model cortical network. Journal of Computational Neuroscience, 2006, 20, 247-264.	1.0	103
9	Influence of Ionic Conductances on Spike Timing Reliability of Cortical Neurons for Suprathreshold Rhythmic Inputs. Journal of Neurophysiology, 2004, 91, 194-205.	1.8	88
10	Oscillatory mechanisms of feedforward and feedback visual processing. Trends in Neurosciences, 2015, 38, 192-194.	8.6	87
11	Hedonic and nucleus accumbens neural responses to a natural reward are regulated by aversive conditioning. Learning and Memory, 2010, 17, 539-546.	1.3	67
12	Long non-coding RNAs in neurodevelopmental disorders. Frontiers in Molecular Neuroscience, 2013, 6, 53.	2.9	53
13	Feature-specific prediction errors and surprise across macaque fronto-striatal circuits. Nature Communications, 2019, 10, 176.	12.8	50
14	Multiple Midfrontal Thetas Revealed by Source Separation of Simultaneous MEG and EEG. Journal of Neuroscience, 2020, 40, 7702-7713.	3.6	45
15	Top-down control of cortical gamma-band communication via pulvinar induced phase shifts in the alpha rhythm. PLoS Computational Biology, 2017, 13, e1005519.	3.2	35
16	Subclasses of oligodendrocytes populate the mouse hippocampus. European Journal of Neuroscience, 2010, 31, 425-438.	2.6	34
17	Stimulus Competition by Inhibitory Interference. Neural Computation, 2005, 17, 2421-2453.	2.2	26
18	A Standards Organization for Open and FAIR Neuroscience: the International Neuroinformatics Coordinating Facility. Neuroinformatics, 2022, 20, 25-36.	2.8	26

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19	Cellular diversity of the somatosensory cortical map plasticity. Neuroscience and Biobehavioral Reviews, 2018, 84, 100-115.	6.1	24
20	Connectomic Analysis of Brain Networks: Novel Techniques and Future Directions. Frontiers in Neuroanatomy, 2016, 10, 110.	1.7	23
21	Adaptive spike-artifact removal from local field potentials uncovers prominent beta and gamma band neuronal synchronization. Journal of Neuroscience Methods, 2020, 330, 108485.	2.5	21
22	The Possible Role of Spike Patterns in Cortical Information Processing. Journal of Computational Neuroscience, 2005, 18, 275-286.	1.0	18
23	Feeding the human brain model. Current Opinion in Neurobiology, 2015, 32, 107-114.	4.2	17
24	Motifs in health and disease: the promise of circuit interrogation by optogenetics. European Journal of Neuroscience, 2012, 36, 2260-2272.	2.6	16
25	Reduced delta power and synchrony and increased gamma power during the P3 time window in schizophrenia. Schizophrenia Research, 2013, 150, 266-268.	2.0	13
26	Human stereoEEG recordings reveal network dynamics of decision-making in a rule-switching task. Nature Communications, 2020, 11, 3075.	12.8	13
27	Simultaneous stability and sensitivity in model cortical networks is achieved through anti-correlations between the in- and out-degree of connectivity. Frontiers in Computational Neuroscience, 2013, 7, 156.	2.1	12
28	Dependence of V2 illusory contour response on V1 cell properties and topographic organization. Biological Cybernetics, 2014, 108, 337-354.	1.3	12
29	A Developmental Switch for Hebbian Plasticity. PLoS Computational Biology, 2015, 11, e1004386.	3.2	12
30	Circuit to Construct Mapping: A Mathematical Tool for Assisting the Diagnosis and Treatment in Major Depressive Disorder. Frontiers in Psychiatry, 2015, 6, 29.	2.6	12
31	Learning at Variable Attentional Load Requires Cooperation of Working Memory, Meta-learning, and Attention-augmented Reinforcement Learning. Journal of Cognitive Neuroscience, 2021, 34, 1-29.	2.3	8
32	Comprehensive characterization of oscillatory signatures in a model circuit with PV- and SOM-expressing interneurons. Biological Cybernetics, 2021, 115, 487-517.	1.3	8
33	Anti-correlations in the degree distribution increase stimulus detection performance in noisy spiking neural networks. Journal of Computational Neuroscience, 2017, 42, 87-106.	1.0	7
34	Flexible Frequency Switching in Adult Mouse Visual Cortex Is Mediated by Competition Between Parvalbumin and Somatostatin Expressing Interneurons. Neural Computation, 2021, 33, 926-966.	2.2	7
35	The missing link: Predicting connectomes from noisy and partially observed tract tracing data. PLoS Computational Biology, 2017, 13, e1005374.	3.2	6
36	Characterization of network structure in stereoEEG data using consensus-based partial coherence. NeuroImage, 2018, 179, 385-402.	4.2	6

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37	Sensitivity to Stimulus Irregularity Is Inherent in Neural Networks. Neural Computation, 2019, 31, 1789-1824.	2.2	4
38	Prediction of a Cell-Class-Specific Mouse Mesoconnectome Using Gene Expression Data. Neuroinformatics, 2020, 18, 611-626.	2.8	4
39	Biological Cybernetics: 60 years and more to come. Biological Cybernetics, 2021, 115, 5-6.	1.3	4
40	Geodesic-based distance reveals nonlinear topological features in neural activity from mouse visual cortex. Biological Cybernetics, 2022, 116, 53-68.	1.3	4
41	Recommendations for repositories and scientific gateways from a neuroscience perspective. Scientific Data, 2022, 9, 212.	5.3	3
42	Uncovering Statistical Links Between Gene Expression and Structural Connectivity Patterns in the Mouse Brain. Neuroinformatics, 2021, 19, 649-667.	2.8	2
43	Progress towards a cellularly resolved mouse mesoconnectome is empowered by data fusion and new neuroanatomy techniques. Neuroscience and Biobehavioral Reviews, 2021, 128, 569-591.	6.1	2