

Nicholas M Timme

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5806707/publications.pdf>

Version: 2024-02-01

19
papers

1,316
citations

759233

12
h-index

839539

18
g-index

25
all docs

25
docs citations

25
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Being Critical of Criticality in the Brain. <i>Frontiers in Physiology</i> , 2012, 3, 163.	2.8	358
2	Synergy, redundancy, and multivariate information measures: an experimentalist's perspective. <i>Journal of Computational Neuroscience</i> , 2014, 36, 119-140.	1.0	170
3	A Tutorial for Information Theory in Neuroscience. <i>ENeuro</i> , 2018, 5, ENEURO.0052-18.2018.	1.9	160
4	Rich-Club Organization in Effective Connectivity among Cortical Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 670-684.	3.6	155
5	Analysis of Power Laws, Shape Collapses, and Neural Complexity: New Techniques and MATLAB Support via the NCC Toolbox. <i>Frontiers in Physiology</i> , 2016, 7, 250.	2.8	85
6	High-Degree Neurons Feed Cortical Computations. <i>PLoS Computational Biology</i> , 2016, 12, e1004858.	3.2	78
7	Criticality Maximizes Complexity in Neural Tissue. <i>Frontiers in Physiology</i> , 2016, 7, 425.	2.8	57
8	Large-Scale, High-Resolution Multielectrode-Array Recording Depicts Functional Network Differences of Cortical and Hippocampal Cultures. <i>PLoS ONE</i> , 2014, 9, e105324.	2.5	52
9	Multiplex Networks of Cortical and Hippocampal Neurons Revealed at Different Timescales. <i>PLoS ONE</i> , 2014, 9, e115764.	2.5	44
10	Computation is concentrated in rich clubs of local cortical networks. <i>Network Neuroscience</i> , 2019, 3, 384-404.	2.6	34
11	Maternal deprivation induces alterations in cognitive and cortical function in adulthood. <i>Translational Psychiatry</i> , 2018, 8, 71.	4.8	28
12	Alcohol-preferring P rats exhibit aversion-resistant drinking of alcohol adulterated with quinine. <i>Alcohol</i> , 2020, 83, 47-56.	1.7	21
13	Compulsive alcohol drinking in rodents is associated with altered representations of behavioral control and seeking in dorsal medial prefrontal cortex. <i>Nature Communications</i> , 2022, 13, .	12.8	15
14	Partial information decomposition reveals that synergistic neural integration is greater downstream of recurrent information flow in organotypic cortical cultures. <i>PLoS Computational Biology</i> , 2021, 17, e1009196.	3.2	13
15	Correlated activity favors synergistic processing in local cortical networks in vitro at synaptically relevant timescales. <i>Network Neuroscience</i> , 2020, 4, 678-697.	2.6	12
16	Encoding of the Intent to Drink Alcohol by the Prefrontal Cortex Is Blunted in Rats with a Family History of Excessive Drinking. <i>ENeuro</i> , 2019, 6, ENEURO.0489-18.2019.	1.9	12
17	The mode shapes of a tennis racket and the effects of vibration dampers on those mode shapes. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 3650-3656.	1.1	4
18	A Summer Math and Physics Program for High School Students: Student Performance and Lessons Learned in the Second Year. <i>Physics Teacher</i> , 2013, 51, 280-284.	0.3	4

#	ARTICLE	IF	CITATIONS
19	A Method to Present and Analyze Ensembles of Information Sources. Entropy, 2020, 22, 580.	2.2	1