

H Francis Song

List of Publications by Year in descending order

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13
papers

1,562
citations

759055

12
h-index

1125617

13
g-index

16
all docs

16
docs citations

16
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Task representations in neural networks trained to perform many cognitive tasks. <i>Nature Neuroscience</i> , 2019, 22, 297-306.	7.1	322
2	Bipartite fluctuations as a probe of many-body entanglement. <i>Physical Review B</i> , 2012, 85, .	1.1	214
3	Training Excitatory-Inhibitory Recurrent Neural Networks for Cognitive Tasks: A Simple and Flexible Framework. <i>PLoS Computational Biology</i> , 2016, 12, e1004792.	1.5	204
4	Circuit mechanisms for the maintenance and manipulation of information in working memory. <i>Nature Neuroscience</i> , 2019, 22, 1159-1167.	7.1	156
5	Reward-based training of recurrent neural networks for cognitive and value-based tasks. <i>ELife</i> , 2017, 6, .	2.8	126
6	General relation between entanglement and fluctuations in one dimension. <i>Physical Review B</i> , 2010, 82, .	1.1	109
7	Entanglement entropy from charge statistics: Exact relations for noninteracting many-body systems. <i>Physical Review B</i> , 2011, 83, .	1.1	107
8	Spatial embedding of structural similarity in the cerebral cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16580-16585.	3.3	93
9	Detecting Quantum Critical Points Using Bipartite Fluctuations. <i>Physical Review Letters</i> , 2012, 108, 116401.	2.9	76
10	Entanglement entropy of the two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 2011, 83, .	1.1	67
11	Fluctuations and entanglement spectrum in quantum Hall states. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P10005.	0.9	32
12	Scaling of entanglement entropy across Lifshitz transitions. <i>Physical Review B</i> , 2013, 87, .	1.1	23
13	d-wave superfluid with gapless edges in a cold-atom trap. <i>Physical Review A</i> , 2012, 85, .	1.0	2