

Matthew Cook

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12138188/publications.pdf>

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16
papers

2,003
citations

1040056

9
h-index

1199594

12
g-index

16
all docs

16
docs citations

16
times ranked

1681
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic detection of synaptic partners in a whole-brain <i>Drosophila</i> electron microscopy data set. <i>Nature Methods</i> , 2021, 18, 771-774.	19.0	81
2	Factorized Computation: What the Neocortex Can Tell Us About the Future of Computing. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 54.	2.1	1
3	Synaptic Partner Prediction from Point Annotations in Insect Brains. <i>Lecture Notes in Computer Science</i> , 2018, , 309-316.	1.3	13
4	A cellular automaton for blocking queen games. <i>Natural Computing</i> , 2017, 16, 397-410.	3.0	3
5	Structural Plasticity Denoises Responses and Improves Learning Speed. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 93.	2.1	18
6	Toward joint approximate inference of visual quantities on cellular processor arrays. , 2015, , .		8
7	Unsupervised learning of digit recognition using spike-timing-dependent plasticity. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 99.	2.1	906
8	Fast-classifying, high-accuracy spiking deep networks through weight and threshold balancing. , 2015, , .		555
9	A Cellular Automaton for Blocking Queen Games. <i>Lecture Notes in Computer Science</i> , 2015, , 71-84.	1.3	1
10	Anatomical Constraints on Lateral Competition in Columnar Cortical Architectures. <i>Neural Computation</i> , 2014, 26, 1624-1666.	2.2	16
11	Efficient implementation of STDP rules on SpiNNaker neuromorphic hardware. , 2014, , .		23
12	Recurrent competitive networks can learn locally excitatory topologies. , 2012, , .		6
13	Programmability of Chemical Reaction Networks. <i>Natural Computing Series</i> , 2009, , 543-584.	2.2	83
14	Combining self-healing and proofreading in self-assembly. <i>Natural Computing</i> , 2008, 7, 203-218.	3.0	21
15	Computation with finite stochastic chemical reaction networks. <i>Natural Computing</i> , 2008, 7, 615-633.	3.0	201
16	Self-Assembled Circuit Patterns. <i>Lecture Notes in Computer Science</i> , 2004, , 91-107.	1.3	67