

Tara Julia Hamilton

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

1,422
citations

1162367

8
h-index

1281420

11
g-index

15
all docs

15
docs citations

15
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuromorphic Silicon Neuron Circuits. <i>Frontiers in Neuroscience</i> , 2011, 5, 73.	1.4	1,004
2	An Active 2-D Silicon Cochlea. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2008, 2, 30-43.	2.7	130
3	Stochastic Electronics: A Neuro-Inspired Design Paradigm for Integrated Circuits. <i>Proceedings of the IEEE</i> , 2014, 102, 843-859.	16.4	59
4	Efficient FPGA Implementations of Pair and Triplet-Based STDP for Neuromorphic Architectures. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 1558-1570.	3.5	38
5	Neuromorphic Hardware Architecture Using the Neural Engineering Framework for Pattern Recognition. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 574-584.	2.7	37
6	A FPGA Implementation of the CAR-FAC Cochlear Model. <i>Frontiers in Neuroscience</i> , 2018, 12, 198.	1.4	30
7	A CMOS switched capacitor implementation of the Mihalas-Niebur neuron. , 2009, , .		26
8	Silicon Modeling of the Mihalas-Niebur Neuron. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 1915-1927.	4.8	25
9	A Low Power Trainable Neuromorphic Integrated Circuit That Is Tolerant to Device Mismatch. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016, 63, 211-221.	3.5	24
10	FPGA implementation of the CAR Model of the cochlea. , 2014, , .		21
11	A neuromorphic hardware framework based on population coding. , 2015, , .		13
12	CAR-Lite: A Multi-Rate Cochlear Model on FPGA for Spike-Based Sound Encoding. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 1805-1817.	3.5	5
13	Silicon Models of the Auditory Pathway. <i>Springer Handbook of Auditory Research</i> , 2010, , 261-276.	0.3	5
14	Compact and Energy Efficient Neuron With Tunable Spiking Frequency in 22-nm FDSOI. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 189-195.	1.1	4
15	A silicon model of the inner hair cell. , 2011, , .		1