Miao Hu

List of Publications by Year in Descending Order

19 papers	4,182 citations	13 h-index	22 g-index
22 ext. papers	5,229 ext. citations	18.5 avg, IF	5.05 L-index

#	Paper	IF	Citations
19	In situ training of feed-forward and recurrent convolutional memristor networks. *Nature Machine Intelligence*, **2019**, 1, 434-442	22.5	93
18	Reinforcement learning with analogue memristor arrays. *Nature Electronics*, **2019**, 2, 115-124	28.4	166
17	Long short-term memory networks in memristor crossbar arrays. *Nature Machine Intelligence*, **2019**, 1, 49-57	22.5	176
16	Fully memristive neural networks for pattern classification with unsupervised learning. *Nature Electronics*, **2018**, 1, 137-145	28.4	511
15	Memristor-Based Analog Computation and Neural Network Classification with a Dot Product Engine. *Advanced Materials*, **2018**, 30, 1705914	24	339
14	Capacitive neural network with neuro-transistors. *Nature Communications*, **2018**, 9, 3208	17.4	132
13	Efficient and self-adaptive in-situ learning in multilayer memristor neural networks. *Nature Communications*, **2018**, 9, 2385	17.4	371
12	Analogue signal and image processing with large memristor crossbars. *Nature Electronics*, **2018**, 1, 52-59	28.4	550
11	A Compact Memristor-Based Dynamic Synapse for Spiking Neural Networks. *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, **2017**, 36, 1353-1366	2.5	59
10	Memristors with diffusive dynamics as synaptic emulators for neuromorphic computing. *Nature Materials*, **2017**, 16, 101-108	27	1201
9	Dot-product engine for neuromorphic computing **2016**,		303
8	Dot-product engine as computing memory to accelerate machine learning algorithms **2016**,		18
7	A Neuromorphic Architecture for Context Aware Text Image Recognition. *Journal of Signal Processing Systems*, **2016**, 84, 355-369	1.4	7
6	Memristor crossbar-based neuromorphic computing system: a case study. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 1864-78	10.3	235
5	Memristor Modeling -- Static, Statistical, and Stochastic Methodologies **2014**,		1
4	Emerging memristor technology enabled next generation cortical processor **2014**,		2
3	Neuromorphic acceleration for context aware text image recognition **2014**,		3

List of Publications

2 The stochastic modeling of TiO2 memristor and its usage in neuromorphic system design **2014**, 12

1 BSB training scheme implementation on memristor-based circuit **2013**, 3