

Christian Gamrat

List of Publications by Year in descending order

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26
papers

3,131
citations

623734

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1058476

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g-index

27
all docs

27
docs citations

27
times ranked

3086
citing authors

#	ARTICLE	IF	CITATIONS
1	Bio-Inspired Stochastic Computing Using Binary CBRAM Synapses. IEEE Transactions on Electron Devices, 2013, 60, 2402-2409.	3.0	356
2	Spin-Transfer Torque Magnetic Memory as a Stochastic Memristive Synapse for Neuromorphic Systems. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 166-174.	4.0	332
3	Immunity to Device Variations in a Spiking Neural Network With Memristive Nanodevices. IEEE Nanotechnology Magazine, 2013, 12, 288-295.	2.0	321
4	An Organic Nanoparticle Transistor Behaving as a Biological Spiking Synapse. Advanced Functional Materials, 2010, 20, 330-337.	14.9	320
5	Visual Pattern Extraction Using Energy-Efficient 2-PCM Synapse Neuromorphic Architecture. IEEE Transactions on Electron Devices, 2012, 59, 2206-2214.	3.0	238
6	Plasticity in memristive devices for spiking neural networks. Frontiers in Neuroscience, 2015, 9, 51.	2.8	188
7	Phase change memory as synapse for ultra-dense neuromorphic systems: Application to complex visual pattern extraction. , 2011, , .		185
8	HfO ₂ -Based OxRAM Devices as Synapses for Convolutional Neural Networks. IEEE Transactions on Electron Devices, 2015, 62, 2494-2501.	3.0	176
9	A Memristive Nanoparticle/Organic Hybrid Synapstor for Neuroinspired Computing. Advanced Functional Materials, 2012, 22, 609-616.	14.9	163
10	Simulation of a memristor-based spiking neural network immune to device variations. , 2011, , .		138
11	Extraction of temporally correlated features from dynamic vision sensors with spike-timing-dependent plasticity. Neural Networks, 2012, 32, 339-348.	5.9	132
12	Bioinspired Programming of Memory Devices for Implementing an Inference Engine. Proceedings of the IEEE, 2015, 103, 1398-1416.	21.3	116
13	Physical aspects of low power synapses based on phase change memory devices. Journal of Applied Physics, 2012, 112, .	2.5	115
14	Gold nanoparticle-pentacene memory transistors. Applied Physics Letters, 2008, 92, .	3.3	98
15	Two-Terminal Carbon Nanotube Programmable Devices for Adaptive Architectures. Advanced Materials, 2010, 22, 702-706.	21.0	95
16	Functional Model of a Nanoparticle Organic Memory Transistor for Use as a Spiking Synapse. IEEE Transactions on Electron Devices, 2010, 57, 3115-3122.	3.0	37
17	Learning with memristive devices: How should we model their behavior?. , 2011, , .		34
18	Unsupervised features extraction from asynchronous silicon retina through Spike-Timing-Dependent Plasticity. , 2011, , .		24

#	ARTICLE	IF	CITATIONS
19	Impact of PCM resistance-drift in neuromorphic systems and drift-mitigation strategy. , 2013, , .		20
20	Advanced technologies for brain-inspired computing. , 2014, , .		14
21	Probabilistic neuromorphic system using binary phase-change memory (PCM) synapses: Detailed power consumption analysis. , 2013, , .		11
22	Challenges and Perspectives of Computer Architecture at the Nano Scale. , 2010, , .		5
23	Sneak paths effects in CBRAM memristive devices arrays for spiking neural networks. , 2014, , .		5
24	Memristive based device arrays combined with Spike based coding can enable efficient implementations of embedded neuromorphic circuits. , 2015, , .		4
25	Sneak paths effects in CBRAM memristive devices arrays for spiking neural networks. , 2014, , .		3
26	Theoretical Analysis of Spike-Timing-Dependent Plasticity Learning with Memristive Devices. Cognitive Systems Monographs, 2017, , 197-210.	0.1	0