Gina C Adam

List of Publications by Year
in descending order

37 papers	3,096 citations	840776 11 h-index	839539 18 g-index
38 all docs	38 docs citations	38 times ranked	3869 citing authors

#	Article	IF	Citations
1	Training and operation of an integrated neuromorphic network based on metal-oxide memristors. Nature, 2015, 521, 61-64.	27.8	2,235
2	3-D Memristor Crossbars for Analog and Neuromorphic Computing Applications. IEEE Transactions on Electron Devices, 2017, 64, 312-318.	3.0	175
3	Hardware-intrinsic security primitives enabled by analogue state and nonlinear conductance variations in integrated memristors. Nature Electronics, 2018, 1, 197-202.	26.0	148
4	Challenges hindering memristive neuromorphic hardware from going mainstream. Nature Communications, 2018, 9, 5267.	12.8	75
5	A multiply-add engine with monolithically integrated 3D memristor crossbar/CMOS hybrid circuit. Scientific Reports, 2017, 7, 42429.	3.3	64
6	Optimized stateful material implication logic for three-dimensional data manipulation. Nano Research, 2016, 9, 3914-3923.	10.4	62
7	Cryogenic Characterization of 22nm FDSOI CMOS Technology for Quantum Computing ICs. IEEE Electron Device Letters, 2018, , 1-1.	3.9	52
8	Roadmap on material-function mapping for photonic-electronic hybrid neural networks. APL Materials, 2019, 7, .	5.1	42
9	Modeling and implementation of firing-rate neuromorphic-network classifiers with bilayer Pt/Al2O3/TiO2â^'x/Pt Memristors. , 2015, , .		37
10	GaN Membrane Supported SAW Pressure Sensors With Embedded Temperature Sensing Capability. IEEE Sensors Journal, 2017, 17, 7383-7393.	4.7	34
11	Radiofrequency Switches Based on Emerging Resistive Memory Technologies - A Survey. Proceedings of the IEEE, 2021, 109, 77-95.	21.3	30
12	Stateful characterization of resistive switching TiO2 with electron beam induced currents. Nature Communications, 2017, 8, 1972.	12.8	28
13	Design Considerations for Spin Readout Amplifiers in Monolithically Integrated Semiconductor Quantum Processors. , 2019, , .		25
14	Spiking neuromorphic networks with metal-oxide memristors. , 2016, , .		17
15	Phased antenna arrays based on nonâ€volatile resistive switches. IET Microwaves, Antennas and Propagation, 2017, 11, 1169-1173.	1.4	9
16	Data-driven RRAM device models using Kriging interpolation. Scientific Reports, 2022, 12, 5963.	3.3	9
17	3D ReRAM arrays and crossbars: Fabrication, characterization and applications. , 2017, , .		8
18	Streaming Batch Eigenupdates for Hardware Neural Networks. Frontiers in Neuroscience, 2019, 13, 793.	2.8	7

#	Article	IF	Citations
19	Highly-uniform multi-layer ReRAM crossbar circuits. , 2016, , .		6
20	A System for Validating Resistive Neural Network Prototypes. , 2021, , .		5
21	Micro- and Macroscale Ideas of Current Among Upper-Division Electrical Engineering Students. IEEE Transactions on Education, 2017, 60, 183-190.	2.4	4
22	Predictive Analysis of 3D ReRAM-Based PUF for Securing the Internet of Things. , 2018, , .		4
23	Two artificial synapses are better than one. Nature, 2018, 558, 39-40.	27.8	4
24	Utilizing I-V non-linearity and analog state variations in ReRAM-based security primitives. , 2017, , .		3
25	Gradient Decomposition Methods for Training Neural Networks With Non-ideal Synaptic Devices. Frontiers in Neuroscience, 2021, 15, 749811.	2.8	3
26	Hardwareâ€Mappable Cellular Neural Networks for Distributed Wavefront Detection in Nextâ€Generation Cardiac Implants. Advanced Intelligent Systems, 2022, 4, .	6.1	3
27	Batch Training for Neuromorphic Systems with Device Non-idealities. , 2020, , .		2
28	Increasing Conceptual Understanding and Student Motivation in Undergraduate Dynamics Using Inquiry-Based Learning Activities. , 0, , .		1
29	Design and Evaluation of an Educational Simulation for the P-N Junction Diode. , 2017, , .		1
30	Misconceptions in Rolling Dynamics: A Case Study of an Inquiry-based Learning Activity. , 0, , .		1
31	Effect of OTS Selector Reliabilities on NVM Crossbar-based Neuromorphic Training. , 2022, , .		1
32	Heteroscedastic Gaussian Process Regression for ReRAM Device Modeling. , 2022, , .		1
33	3D implication logic: Preliminary results. , 2011, , .		0
34	What motivates STEM teachers to attend professional development? A case study in Chilian high schools. , 2014, , .		0
35	On the reset threshold voltage of ReRAM devices and its impact on the implication logic operation. , 2017, , .		0
36	Streaming Batch Gradient Tracking for Neural Network Training (Student Abstract). Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 13813-13814.	4.9	0

#	Article	IF	Citations
37	Abstract 16137: Cardiac Implantable Devices Identification Based on Chest-x-rays Using Machine Learning Algorithms. Circulation, 2020, 142, .	1.6	0