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	Data-driven RRAM device models using Kriging interpolation. Scientific Reports, 2022, 12, 5963.	3.3	9
2	Effect of OTS Selector Reliabilities on NVM Crossbar-based Neuromorphic Training. , 2022, , .		1
3	Hardwareâ€Mappable Cellular Neural Networks for Distributed Wavefront Detection in Nextâ€Generation Cardiac Implants. Advanced Intelligent Systems, 2022, 4, .	6.1	3
4	Heteroscedastic Gaussian Process Regression for ReRAM Device Modeling. , 2022, , .		1
5	Radiofrequency Switches Based on Emerging Resistive Memory Technologies - A Survey. Proceedings of the IEEE, 2021, 109, 77-95.	21.3	30
6	A System for Validating Resistive Neural Network Prototypes. , 2021, , .		5
7	Gradient Decomposition Methods for Training Neural Networks With Non-ideal Synaptic Devices. Frontiers in Neuroscience, 2021, 15, 749811.	2.8	3
8	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
9	Batch Training for Neuromorphic Systems with Device Non-idealities. , 2020, , .		2
10	Abstract 16137: Cardiac Implantable Devices Identification Based on Chest-x-rays Using Machine Learning Algorithms. Circulation, 2020, 142, .	1.6	0
11	Streaming Batch Eigenupdates for Hardware Neural Networks. Frontiers in Neuroscience, 2019, 13, 793.	2.8	7
12	Roadmap on material-function mapping for photonic-electronic hybrid neural networks. APL Materials, 2019, 7, .	5.1	42
13	Design Considerations for Spin Readout Amplifiers in Monolithically Integrated Semiconductor Quantum Processors. , 2019, , .		25
14	Hardware-intrinsic security primitives enabled by analogue state and nonlinear conductance variations in integrated memristors. Nature Electronics, 2018, 1, 197-202.	26.0	148
15	Predictive Analysis of 3D ReRAM-Based PUF for Securing the Internet of Things. , 2018, , .		4
16	Cryogenic Characterization of 22nm FDSOI CMOS Technology for Quantum Computing ICs. IEEE Electron Device Letters, 2018, , 1-1.	3.9	52
17	Challenges hindering memristive neuromorphic hardware from going mainstream. Nature Communications, 2018, 9, 5267.	12.8	75
18	Two artificial synapses are better than one. Nature, 2018, 558, 39-40.	27.8	4

#	Article	IF	Citations
19	A multiply-add engine with monolithically integrated 3D memristor crossbar/CMOS hybrid circuit. Scientific Reports, 2017, 7, 42429.	3.3	64
20	Micro- and Macroscale Ideas of Current Among Upper-Division Electrical Engineering Students. IEEE Transactions on Education, 2017, 60, 183-190.	2.4	4
21	3-D Memristor Crossbars for Analog and Neuromorphic Computing Applications. IEEE Transactions on Electron Devices, 2017, 64, 312-318.	3.0	175
22	Phased antenna arrays based on nonâ€volatile resistive switches. IET Microwaves, Antennas and Propagation, 2017, 11, 1169-1173.	1.4	9
23	3D ReRAM arrays and crossbars: Fabrication, characterization and applications. , 2017, , .		8
24	On the reset threshold voltage of ReRAM devices and its impact on the implication logic operation. , 2017, , .		0
25	Stateful characterization of resistive switching TiO2 with electron beam induced currents. Nature Communications, 2017, 8, 1972.	12.8	28
26	GaN Membrane Supported SAW Pressure Sensors With Embedded Temperature Sensing Capability. IEEE Sensors Journal, 2017, 17, 7383-7393.	4.7	34
27	Utilizing I-V non-linearity and analog state variations in ReRAM-based security primitives. , 2017, , .		3
28	Design and Evaluation of an Educational Simulation for the P-N Junction Diode. , 2017, , .		1
29	Optimized stateful material implication logic for three-dimensional data manipulation. Nano Research, 2016, 9, 3914-3923.	10.4	62
30	Highly-uniform multi-layer ReRAM crossbar circuits. , 2016, , .		6
31	Spiking neuromorphic networks with metal-oxide memristors. , 2016, , .		17
32	Modeling and implementation of firing-rate neuromorphic-network classifiers with bilayer Pt/Al2O3/TiO2â^'x/Pt Memristors. , 2015, , .		37
33	Training and operation of an integrated neuromorphic network based on metal-oxide memristors. Nature, 2015, 521, 61-64.	27.8	2,235
34	What motivates STEM teachers to attend professional development? A case study in Chilian high schools. , 2014, , .		0
35	3D implication logic: Preliminary results. , 2011, , .		0
36	Increasing Conceptual Understanding and Student Motivation in Undergraduate Dynamics Using Inquiry-Based Learning Activities. , 0, , .		1

#	Article	IF	Citations
37	Misconceptions in Rolling Dynamics: A Case Study of an Inquiry-based Learning Activity. , 0, , .		1