Matthew Jerry

List of Publications by Year
in descending order

17 papers	**1,272** citations	840776 **11** h-index	1199594 **12** g-index
17 all docs	**17** docs citations	**17** times ranked	**1305** citing authors

#	Article	IF	Citations
1	Ferroelectric FET analog synapse for acceleration of deep neural network training. , 2017, , .		322
2	Critical Role of Interlayer in $Hf_{0.5}Zr_{0.5}O_2$ Ferroelectric FET Nonvolatile Memory Performance. IEEE Transactions on Electron Devices, 2018, 65, 2461-2469.	3.0	284
3	A Circuit Compatible Accurate Compact Model for Ferroelectric-FETs. , 2018, , .		120
4	A ferroelectric field effect transistor based synaptic weight cell. Journal Physics D: Applied Physics, 2018, 51, 434001.	2.8	113
5	Write Disturb in Ferroelectric FETs and Its Implication for 1T-FeFET AND Memory Arrays. IEEE Electron Device Letters, 2018, 39, 1656-1659.	3.9	72
6	Computing With Networks of Oscillatory Dynamical Systems. Proceedings of the IEEE, 2019, 107, 73-89.	21.3	57
7	Quantitative Mapping of Phase Coexistence in Mott-Peierls Insulator during Electronic and Thermally Driven Phase Transition. ACS Nano, 2015, 9, 2009-2017.	14.6	55
8	Programmable coupled oscillators for synchronized locomotion. Nature Communications, 2019, 10, 3299.	12.8	52
9	Computing with ferroelectric FETs: Devices, models, systems, and applications. , 2018, , .		48
10	Stochastic Insulator-to-Metal Phase Transition-Based True Random Number Generator. IEEE Electron Device Letters, 2018, 39, 139-142.	3.9	35
11	Stochastic IMT (Insulator-Metal-Transition) Neurons: An Interplay of Thermal and Threshold Noise at Bifurcation. Frontiers in Neuroscience, 2018, 12, 210.	2.8	30
12	Performance Enhancement of Ag/HfO_2 Metal Ion Threshold Switch Cross-Point Selectors. IEEE Electron Device Letters, 2019, 40, 1602-1605.	3.9	24
13	Dynamics of electrically driven sub-nanosecond switching in vanadium dioxide. , 2016, , .		20
14	Computing with dynamical systems based on insulator-metal-transition oscillators. Nanophotonics, 2017, 6, 601-611.	6.0	18
15	The Impact of Ferroelectric FETs on Digital and Analog Circuits and Architectures. IEEE Design and Test, 2020, 37, 79-99.	1.2	13
16	A FerroFET-Based In-Memory Processor for Solving Distributed and Iterative Optimizations via Least-Squares Method. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2019, 5, 132-141.	1.5	6
17	A steep slope Phase-FET based on 2D MoS_2 and the electronic phase transition in VO_2. , 2017, , .		3