

Stephen Hall

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

352
citations

1163117

8
h-index

996975

15
g-index

20
all docs

20
docs citations

20
times ranked

508
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxides for Rectenna Technology. <i>Materials</i> , 2021, 14, 5218.	2.9	8
2	Effect of Annealing Temperature for Ni/AlOx/Pt RRAM Devices Fabricated with Solution-Based Dielectric. <i>Micromachines</i> , 2019, 10, 446.	2.9	33
3	Calcium Microdomain Formation at the Perisynaptic Cradle Due to NCX Reversal: A Computational Study. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 185.	3.7	16
4	A high speed PE-ALD ZnO Schottky diode rectifier with low interface-state density. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065102.	2.8	5
5	The Over-Reset Phenomenon in Ta ₂ O ₅ RRAM Device Investigated by the RTN-Based Defect Probing Technique. <i>IEEE Electron Device Letters</i> , 2018, 39, 955-958.	3.9	18
6	Potassium and sodium microdomains in thin astroglial processes: A computational model study. <i>PLoS Computational Biology</i> , 2018, 14, e1006151.	3.2	52
7	Schottky Diodes on ZnO Thin Films Grown by Plasma-Enhanced Atomic Layer Deposition. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1225-1230.	3.0	8
8	Dispersion relation data for methylammonium lead triiodide perovskite deposited on a (100) silicon wafer using a two-step vapour-phase reaction process. <i>Data in Brief</i> , 2015, 5, 926-928.	1.0	72
9	Internal photoemission technique for high-k oxide/semiconductor band offset determination: The influence of semiconductor bulk properties. , 2014, , .		2
10	Bound states within the notch of the HfO ₂ /GeO ₂ /Ge stack. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	4
11	Analysis of electron capture at oxide traps by electric field injection. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	3
12	Plasma of Arc Discharge in Water for the Formation of Diverse Nanostructures Dependent on the Anode Material. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2628-2629.	1.3	5
13	A Reconfigurable and Biologically Inspired Paradigm for Computation Using Network-On-Chip and Spiking Neural Networks. <i>International Journal of Reconfigurable Computing</i> , 2009, 2009, 1-13.	0.2	46
14	Stress-Induced Positive Charge in Hf-Based Gate Dielectrics: Impact on Device Performance and a Framework for the Defect. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 1647-1656.	3.0	44
15	A programmable facilitating synapse device. , 2008, , .		8
16	A Biologically Plausible Neuron Circuit. <i>Neural Networks (IJCNN)</i> , International Joint Conference on, 2007, , .	0.0	4
17	Failure Analysis of Power Silicon Devices at Operation above 200°C Junction Temperature. , 2007, , .		7
18	Direct Observation of Anomalous Positive Charge and Electron-Trapping Dynamics in High- κ Films Using Pulsed-MOS-Capacitor Measurements. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 272-278.	3.0	17

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19	A Solid State Neuron for the Realisation of Highly Scaleable Third Generation Neural Networks. , 2006, , .		0