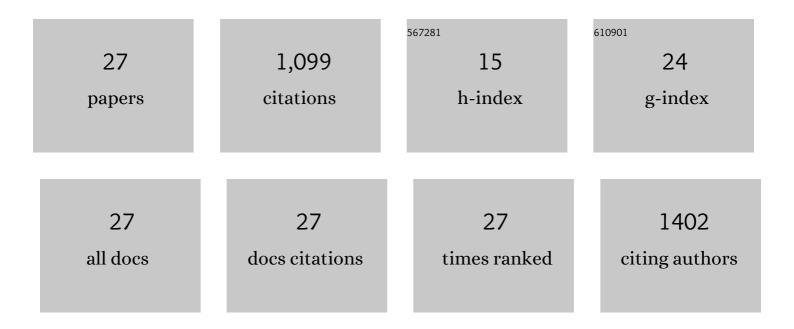
Mark Buckwell

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7196295/publications.pdf Version: 2024-02-01



MARK RUCKWELL

#	Article	IF	CITATIONS
1	A nanoscale analysis method to reveal oxygen exchange between environment, oxide, and electrodes in ReRAM devices. APL Materials, 2021, 9, .	5.1	6
2	Neuromorphic Dynamics at the Nanoscale in Silicon Suboxide RRAM. Frontiers in Nanotechnology, 2021, 3, .	4.8	3
3	Committee machines—a universal method to deal with non-idealities in memristor-based neural networks. Nature Communications, 2020, 11, 4273.	12.8	51
4	The interplay between structure and function in redox-based resistance switching. Faraday Discussions, 2019, 213, 151-163.	3.2	16
5	Simulation of Inference Accuracy Using Realistic RRAM Devices. Frontiers in Neuroscience, 2019, 13, 593.	2.8	52
6	Improving the Consistency of Nanoscale Etching for Atomic Force Microscopy Tomography Applications. Frontiers in Materials, 2019, 6, .	2.4	5
7	Recommended Methods to Study Resistive Switching Devices. Advanced Electronic Materials, 2019, 5, 1800143.	5.1	452
8	High-Performance Resistance Switching Memory Devices Using Spin-On Silicon Oxide. IEEE Nanotechnology Magazine, 2018, 17, 884-888.	2.0	11
9	Investigation of resistance switching in SiO _{<i>x</i>} RRAM cells using a 3D multi-scale kinetic Monte Carlo simulator. Journal of Physics Condensed Matter, 2018, 30, 084005.	1.8	23
10	On the Limits of Scalpel AFM for the 3D Electrical Characterization of Nanomaterials. Advanced Functional Materials, 2018, 28, 1802266.	14.9	19
11	Spike-Timing Dependent Plasticity in Unipolar Silicon Oxide RRAM Devices. Frontiers in Neuroscience, 2018, 12, 57.	2.8	24
12	Probing electrochemistry at the nanoscale: in situ TEM and STM characterizations of conducting filaments in memristive devices. Journal of Electroceramics, 2017, 39, 73-93.	2.0	28
13	Intrinsic resistance switching in amorphous silicon oxide for high performance SiOx ReRAM devices. Microelectronic Engineering, 2017, 178, 98-103.	2.4	64
14	Intrinsic Resistance Switching in Amorphous Silicon Suboxides: The Role of Columnar Microstructure. Scientific Reports, 2017, 7, 9274.	3.3	41
15	Nanoscale Transformations in Metastable, Amorphous, Siliconâ€Rich Silica. Advanced Materials, 2016, 28, 7486-7493.	21.0	52
16	<i>In situ</i> transmission electron microscopy of resistive switching in thin silicon oxide layers. Resolution and Discovery, 2016, 1, 27-33.	0.4	16
17	Silica: Nanoscale Transformations in Metastable, Amorphous, Siliconâ€Rich Silica (Adv. Mater. 34/2016). Advanced Materials, 2016, 28, 7549-7549.	21.0	13
18	Conductive AFM Topography of Intrinsic Conductivity Variations in Silica Based Dielectrics for Memory Applications. ECS Transactions, 2016, 75, 3-9.	0.5	7

Mark Buckwell

#	Article	IF	CITATIONS
19	Resistance Switching in Individual Hydrogen Silsesquioxane (HSQ) Nanopillars. ECS Transactions, 2016, 75, 101-105.	0.5	1
20	X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. Nanotechnology, 2016, 27, 345705.	2.6	11
21	Advanced physical modeling of SiO <inf>x</inf> resistive random access memories. , 2016, , .		6
22	Nanosecond Analog Programming of Substoichiometric Silicon Oxide Resistive RAM. IEEE Nanotechnology Magazine, 2016, 15, 428-434.	2.0	13
23	Structural changes and conductance thresholds in metal-free intrinsic SiOx resistive random access memory. Journal of Applied Physics, 2015, 117, .	2.5	102
24	Resistance switching in SiO _x ., 2015,,.		0
25	Structural investigation of resistance switching in silicon-rich silica films. , 2015, , .		0
26	Microscopic and spectroscopic analysis of the nature of conductivity changes during resistive switching in siliconâ€rich silicon oxide. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 211-217.	0.8	21
27	Conductance tomography of conductive filaments in intrinsic silicon-rich silica RRAM. Nanoscale, 2015, 7, 18030-18035.	5.6	62