

Themis Prodromakis

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170
papers

4,056
citations

30
h-index

59
g-index

216
ext. papers

5,132
ext. citations

5.1
avg. IF

5.78
L-index

#	Paper	IF	Citations
170	Integration of nanoscale memristor synapses in neuromorphic computing architectures. <i>Nanotechnology</i> , 2013 , 24, 384010	3.4	356
169	A Versatile Memristor Model With Nonlinear Dopant Kinetics. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3099-3105	2.9	302
168	STDP and STDP variations with memristors for spiking neuromorphic learning systems. <i>Frontiers in Neuroscience</i> , 2013 , 7, 2	5.1	274
167	Two centuries of memristors. <i>Nature Materials</i> , 2012 , 11, 478-81	27	250
166	Unsupervised learning in probabilistic neural networks with multi-state metal-oxide memristive synapses. <i>Nature Communications</i> , 2016 , 7, 12611	17.4	216
165	Multibit memory operation of metal-oxide bi-layer memristors. <i>Scientific Reports</i> , 2017 , 7, 17532	4.9	133
164	The effect of microgrooved culture substrates on calcium cycling of cardiac myocytes derived from human induced pluripotent stem cells. <i>Biomaterials</i> , 2013 , 34, 2399-411	15.6	123
163	Engineering the Maxwell-Wagner polarization effect. <i>Applied Surface Science</i> , 2009 , 255, 6989-6994	6.7	119
162	Real-time encoding and compression of neuronal spikes by metal-oxide memristors. <i>Nature Communications</i> , 2016 , 7, 12805	17.4	97
161	Analog Memristive Synapse in Spiking Networks Implementing Unsupervised Learning. <i>Frontiers in Neuroscience</i> , 2016 , 10, 482	5.1	95
160	Emulating short-term synaptic dynamics with memristive devices. <i>Scientific Reports</i> , 2016 , 6, 18639	4.9	84
159	Memory impedance in TiO ₂ based metal-insulator-metal devices. <i>Scientific Reports</i> , 2014 , 4, 4522	4.9	67
158	An Extended CMOS ISFET Model Incorporating the Physical Design Geometry and the Effects on Performance and Offset Variation. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 4414-4422	2.9	50
157	. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 2190-2196	2.9	49
156	Resistive switching of oxygen enhanced TiO ₂ thin-film devices. <i>Applied Physics Letters</i> , 2013 , 102, 013506	4.4	49
155	A Proposal for Hybrid Memristor-CMOS Spiking Neuromorphic Learning Systems. <i>IEEE Circuits and Systems Magazine</i> , 2013 , 13, 74-88	3.2	48
154	Investigation of the Switching Mechanism in TiO ₂ -Based RRAM: A Two-Dimensional EDX Approach. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19605-11	9.5	46

153	Oxygen plasma induced hydrophilicity of Parylene-C thin films. <i>Applied Surface Science</i> , 2012 , 261, 43-51	6.7	45
152	Experimental study of gradual/abrupt dynamics of HfO ₂ -based memristive devices. <i>Applied Physics Letters</i> , 2016 , 109, 133504	3.4	42
151	Challenges hindering memristive neuromorphic hardware from going mainstream. <i>Nature Communications</i> , 2018 , 9, 5267	17.4	41
150	A Memristor SPICE Model Accounting for Volatile Characteristics of Practical ReRAM. <i>IEEE Electron Device Letters</i> , 2014 , 35, 135-137	4.4	40
149	A CMOS-Based ISFET Chemical Imager With Auto-Calibration Capability. <i>IEEE Sensors Journal</i> , 2011 , 11, 3253-3260	4	40
148	A Data-Driven Verilog-A ReRAM Model. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2018 , 37, 3151-3162	2.5	38
147	Role and Optimization of the Active Oxide Layer in TiO ₂ -Based RRAM. <i>Advanced Functional Materials</i> , 2016 , 26, 507-513	15.6	36
146	Standards for the Characterization of Endurance in Resistive Switching Devices. <i>ACS Nano</i> , 2021 ,	16.7	36
145	Memristive synapses connect brain and silicon spiking neurons. <i>Scientific Reports</i> , 2020 , 10, 2590	4.9	33
144	A review on memristive devices and applications 2010 ,		33
143	Selective hydrophilic modification of Parylene C films: a new approach to cell micro-patterning for synthetic biology applications. <i>Biofabrication</i> , 2014 , 6, 025004	10.5	32
142	Amperometric IFN- γ immunosensors with commercially fabricated PCB sensing electrodes. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 805-810	11.8	32
141	Switching mechanisms in microscale memristors. <i>Electronics Letters</i> , 2010 , 46, 63	1.1	31
140	High precision analogue memristor state tuning. <i>Electronics Letters</i> , 2012 , 48, 1105-1107	1.1	30
139	Biomimetic model of the outer plexiform layer by incorporating memristive devices. <i>Physical Review E</i> , 2012 , 85, 041918	2.4	30
138	Poly(N-isopropylacrylamide) based thin microgel films for use in cell culture applications. <i>Scientific Reports</i> , 2020 , 10, 6126	4.9	30
137	Pulse-induced resistive and capacitive switching in TiO ₂ thin film devices. <i>Applied Physics Letters</i> , 2013 , 103, 233513	3.4	29
136	Implementation of a spike-based perceptron learning rule using TiO ₂ -x memristors. <i>Frontiers in Neuroscience</i> , 2015 , 9, 357	5.1	28

135	Conductive Atomic Force Microscopy Investigation of Switching Thresholds in Titanium Dioxide Thin Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11958-11964	3.8	27
134	The dual role of Parylene C in chemical sensing: Acting as an encapsulant and as a sensing membrane for pH monitoring applications. <i>Sensors and Actuators B: Chemical</i> , 2013 , 186, 1-8	8.5	27
133	Surface and Electrical Characterization of Ag/AgCl Pseudo-Reference Electrodes Manufactured with Commercially Available PCB Technologies. <i>Sensors</i> , 2015 , 15, 18102-13	3.8	26
132	X-ray Absorption Spectroscopy Study of TiO ₂ Thin Films for Memory Applications. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4362-4370	3.8	26
131	High Density Crossbar Arrays with Sub- 15 nm Single Cells via Liftoff Process Only. <i>Scientific Reports</i> , 2016 , 6, 32614	4.9	24
130	Memristive devices as parameter setting elements in programmable gain amplifiers. <i>Applied Physics Letters</i> , 2012 , 101, 243502	3.4	24
129	A memristor SPICE model accounting for synaptic activity dependence. <i>PLoS ONE</i> , 2015 , 10, e0120506	3.7	24
128	A Novel Microfluidic Point-of-Care Biosensor System on Printed Circuit Board for Cytokine Detection. <i>Sensors</i> , 2018 , 18,	3.8	24
127	Conduction mechanisms at distinct resistive levels of Pt/TiO ₂ -x/Pt memristors. <i>Applied Physics Letters</i> , 2018 , 113, 143503	3.4	24
126	Effects of Ar and O ₂ Plasma Etching on Parylene C: Topography versus Surface Chemistry and the Impact on Cell Viability. <i>Plasma Processes and Polymers</i> , 2016 , 13, 324-333	3.4	22
125	HfO ₂ -based memristors for neuromorphic applications 2016 ,		22
124	Impact of ultra-thin Al ₂ O ₃ layers on TiO ₂ ReRAM switching characteristics. <i>Journal of Applied Physics</i> , 2017 , 121, 184505	2.5	21
123	Parylene C-based flexible electronics for pH monitoring applications. <i>Sensors</i> , 2014 , 14, 11629-39	3.8	21
122	Microfluidic evaporator for on-chip sample concentration. <i>Lab on A Chip</i> , 2012 , 12, 4049-54	7.2	21
121	. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3685-3691	2.9	20
120	Origin of the OFF state variability in ReRAM cells. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 145102	3	20
119	Functional Connectivity of Organic Neuromorphic Devices by Global Voltage Oscillations. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900013	6	19
118	Spatially resolved TiO _x phases in switched RRAM devices using soft X-ray spectromicroscopy. <i>Scientific Reports</i> , 2016 , 6, 21525	4.9	19

117	Seamlessly fused digital-analogue reconfigurable computing using memristors. <i>Nature Communications</i> , 2018 , 9, 2170	17.4	19
116	Coexistence of memory resistance and memory capacitance in TiO ₂ solid-state devices. <i>Nanoscale Research Letters</i> , 2014 , 9, 552	5	19
115	An Assay System for Point-of-Care Diagnosis of Tuberculosis using Commercially Manufactured PCB Technology. <i>Scientific Reports</i> , 2017 , 7, 685	4.9	18
114	Exploiting CMOS Technology to Enhance the Performance of ISFET Sensors. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1053-1055	4.4	18
113	A Low-Cost Disposable Chemical Sensing Platform Based on Discrete Components. <i>IEEE Electron Device Letters</i> , 2011 , 32, 417-419	4.4	18
112	Engineering the switching dynamics of TiO _x -based RRAM with Al doping. <i>Journal of Applied Physics</i> , 2016 , 120, 025108	2.5	18
111	A Cell Classifier for RRAM Process Development. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 676-680	3.5	17
110	Practical Determination of Individual Element Resistive States in Selectorless RRAM Arrays. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 827-835	3.9	17
109	Biorealistic cardiac cell culture platforms with integrated monitoring of extracellular action potentials. <i>Scientific Reports</i> , 2015 , 5, 11067	4.9	17
108	An amorphous titanium dioxide metal insulator metal selector device for resistive random access memory crossbar arrays with tunable voltage margin. <i>Applied Physics Letters</i> , 2016 , 108, 033505	3.4	16
107	Practical Implementation of Memristor-Based Threshold Logic Gates. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3041-3051	3.9	15
106	Electrical characteristics of interfacial barriers at metal/TiO ₂ contacts. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 425101	3	15
105	Biocompatible encapsulation of CMOS based chemical sensors 2009 ,		15
104	Resistive switching of Pt/TiO ₂ /Pt devices fabricated on flexible Parylene-C substrates. <i>Nanotechnology</i> , 2017 , 28, 025303	3.4	14
103	Transformation of digital to analog switching in TaO _x -based memristor device for neuromorphic applications. <i>Applied Physics Letters</i> , 2021 , 118, 112103	3.4	14
102	Sub 100 nW Volatile Nano-Metal-Oxide Memristor as Synaptic-Like Encoder of Neuronal Spikes. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 351-359	5.1	13
101	Long-lasting FR-4 surface hydrophilisation towards commercial PCB passive microfluidics. <i>Applied Surface Science</i> , 2016 , 368, 69-75	6.7	13
100	Gradual set dynamics in HfO ₂ -based memristor driven by sub-threshold voltage pulses 2015 ,		13

99	Stochastic switching of TiO ₂ -based memristive devices with identical initial memory states. <i>Nanoscale Research Letters</i> , 2014 , 9, 293	5	12
98	High-performance PCB-based capillary pumps for affordable point-of-care diagnostics. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 103	2.8	11
97	On the origin of resistive switching volatility in Ni/TiO ₂ /Ni stacks. <i>Journal of Applied Physics</i> , 2016 , 120, 065104	2.5	11
96	An Electrical Characterisation Methodology for Benchmarking Memristive Device Technologies. <i>Scientific Reports</i> , 2019 , 9, 19412	4.9	11
95	A Memristive Switching Uncertainty Model. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2946-2953	2.9	10
94	Effect of patterned polyacrylamide hydrogel on morphology and orientation of cultured NRVMs. <i>Scientific Reports</i> , 2018 , 8, 11991	4.9	10
93	A novel design approach for developing chemical sensing platforms using inexpensive technologies 2011 ,		10
92	Computing Shortest Paths in 2D and 3D Memristive Networks 2014 , 537-552		10
91	Low-power electronic technologies for harsh radiation environments. <i>Nature Electronics</i> , 2021 , 4, 243-258	3.4	10
90	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2016 , 63, 818-826	3.9	10
89	Assessment of Parylene C Thin Films for Heart Valve Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2015 , 21, 2504-14	3.9	9
88	Live demonstration: A versatile, low-cost platform for testing large ReRAM cross-bar arrays 2014 ,		9
87	Parylene C topographic micropattern as a template for patterning PDMS and Polyacrylamide hydrogel. <i>Scientific Reports</i> , 2017 , 7, 5764	4.9	9
86	Cost-effective fabrication of nanoscale electrode memristors with reproducible electrical response. <i>Micro and Nano Letters</i> , 2010 , 5, 91	0.9	9
85	Surface Chemistry and Microtopography of Parylene C Films Control the Morphology and Microtubule Density of Cardiac Myocytes. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 464-72	2.9	9
84	X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices. <i>Nanotechnology</i> , 2016 , 27, 345705	3.4	8
83	Computationally efficient concentration-based model for accurate evaluation of T-junction inlet staggered herringbone micromixers. <i>Micro and Nano Letters</i> , 2016 , 11, 236-239	0.9	7
82	Fabrication and electrical characteristics of memristors with TiO ₂ /TiO _{2+x} active layers 2010 ,		7

81	Batch encapsulation technique for CMOS based chemical sensors 2008 ,		7
80	Magnetic stimulation in the microscale: the development of a 6 μ m array of micro-coils for stimulation of excitable cells in vitro. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 025016	1.5	7
79	An electrical characterisation methodology for identifying the switching mechanism in TiO memristive stacks. <i>Scientific Reports</i> , 2019 , 9, 8168	4.9	6
78	Interface Asymmetry Induced by Symmetric Electrodes on Metal/TiO _x /Metal Structures. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 867-872	2.6	6
77	A CMOS-based lab-on-chip array for the combined magnetic stimulation and opto-chemical sensing of neural tissue 2010 ,		6
76	Limitations and precision requirements for read-out of passive, linear, selectorless RRAM arrays 2015 ,		5
75	Bidirectional Volatile Signatures of MetalOxide MemristorsPart I: Characterization. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5158-5165	2.9	5
74	A TiO ₂ ReRAM parameter extraction method 2017 ,		5
73	Temporal processing with volatile memristors 2013 ,		5
72	Practical micro/nano fabrication implementations of memristive devices 2010 ,		5
71	Computing Image and Motion with 3-D Memristive Grids 2014 , 553-583		5
70	Electrochemical metallization ReRAMs (ECM) - Experiments and modelling: general discussion. <i>Faraday Discussions</i> , 2019 , 213, 115-150	3.6	4
69	Design considerations for a CMOS Lab-on-Chip microheater array to facilitate the in vitro thermal stimulation of neurons 2014 ,		4
68	Volatility Characterization for RRAM Devices. <i>IEEE Electron Device Letters</i> , 2017 , 38, 28-31	4.4	4
67	Live demonstration: A TiO ₂ ReRAM parameter extraction method 2017 ,		4
66	TWO CENTURIES OF MEMRISTORS 2013 , 508-517		4
65	Effect of mobile ionic-charge on CMOS based ion-sensitive field-effect transistors (ISFETs) 2009 ,		4
64	Live demonstration: A CMOS-based lab-on-chip array for combined magnetic manipulation and opto-chemical sensing 2011 ,		4

63	Review Progress in Electrolytes for Rechargeable Aluminium Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 056509	3.9	4
62	The Lab-on-PCB framework for affordable, electronic-based point-of-care diagnostics: From design to manufacturing 2016 ,		4
61	A PCB-based electronic ELISA system for rapid, portable infectious disease diagnosis 2016 ,		4
60	A TiO ₂ -based volatile threshold switching selector device with 107 non linearity and sub 100 pA Off current 2016 ,		4
59	Conduction channel configuration controlled digital and analog response in TiO ₂ -based inorganic memristive artificial synapses. <i>APL Materials</i> , 2021 , 9, 121103	5.7	4
58	Impact of active areas on electrical characteristics of TiO ₂ based solid-state memristors 2015 ,		3
57	Metal Oxide-enabled Reconfigurable Memristive Threshold Logic Gates 2018 ,		3
56	Applications of solid-state memristors in tunable filters 2014 ,		3
55	Resistive switching characteristics of indium-tin-oxide thin film devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1194-1199	1.6	3
54	Application of Maxwell-Wagner polarization in delay lines. <i>Microelectronics Journal</i> , 2010 , 41, 17-24	1.8	3
53	Towards a microstrip antenna on synthetic high-dielectric constant substrates		3
52	Tissue engineering techniques in cardiac repair and disease modelling. <i>Current Pharmaceutical Design</i> , 2014 , 20, 2048-56	3.3	3
51	Monitoring PSA levels as chemical state-variables in metal-oxide memristors. <i>Scientific Reports</i> , 2020 , 10, 15281	4.9	3
50	Formation and Stability of Smooth Thin Films with Soft Microgels Made of Poly(-Isopropylacrylamide) and Poly(Acrylic Acid). <i>Polymers</i> , 2020 , 12,	4.5	3
49	Bidirectional Volatile Signatures of Metal-Oxide Memristors Part II: Modeling. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5166-5173	2.9	3
48	Surface Acoustic Wave Resonators for Wireless Sensor Network Applications in the 433.92 MHz ISM Band. <i>Sensors</i> , 2020 , 20,	3.8	3
47	An Embedded Environmental Control Micro-chamber System for RRAM Memristor Characterisation 2018 ,		3
46	Advances in Organic and Perovskite Photovoltaics Enabling a Greener Internet of Things. <i>Advanced Functional Materials</i> , 2020 , 30, 200694	15.6	3

45	Correlated resistive/capacitive state variability in solid TiO ₂ based memory devices. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	2
44	Towards a smartphone-aided electronic ELISA for real-time electrochemical monitoring 2017 ,		2
43	Structured Culture Scaffolds Improve the Calcium Handling Properties of Cardiomyocytes Differentiated from Induced Pluripotent Stem Cells. <i>Biophysical Journal</i> , 2012 , 102, 103a	2.9	2
42	Low-cost implementations of pH monitoring platforms 2011 ,		2
41	Microstrip stepped impedance lowpass filters based on the maxwell-wagner polarization mechanism 2008 ,		2
40	Negative effect of cations out-diffusion and auto-doping on switching mechanisms of transparent memristor devices employing ZnO/ITO heterostructure. <i>Applied Physics Letters</i> , 2021 , 118, 173502	3.4	2
39	A planar micro-magnetic platform for stimulation of neural cells in vitro 2016 ,		2
38	Towards a memristor-based spike-sorting platform 2016 ,		2
37	Formation of a ternary oxide barrier layer and its role in switching characteristic of ZnO-based conductive bridge random access memory devices. <i>APL Materials</i> , 2022 , 10, 031103	5.7	2
36	A memristor-CMOS hybrid architecture concept for on-line template matching 2017 ,		1
35	Spike sorting using non-volatile metal-oxide memristors. <i>Faraday Discussions</i> , 2019 , 213, 511-520	3.6	1
34	Synaptic and neuromorphic functions: general discussion. <i>Faraday Discussions</i> , 2019 , 213, 553-578	3.6	1
33	Microstructured hybrid scaffolds for aligning neonatal rat ventricular myocytes. <i>Materials Science and Engineering C</i> , 2019 , 103, 109783	8.3	1
32	Modular Pressure and Flow Rate-Balanced Microfluidic Serial Dilution Networks for Miniaturised Point-of-Care Diagnostic Platforms. <i>Sensors</i> , 2019 , 19,	3.8	1
31	UV induced resistive switching in hybrid polymer metal oxide memristors. <i>Scientific Reports</i> , 2020 , 10, 21130	4.9	1
30	Electrothermal deterioration factors in gold planar inductors designed for microscale bio-applications. <i>Microelectronic Engineering</i> , 2018 , 197, 61-66	2.5	1
29	A Sub-30 mpH Resolution Thin Film Transistor-Based Nanoribbon Biosensing Platform. <i>Sensors</i> , 2017 , 17,	3.8	1
28	Towards a high-precision, embedded system for versatile sensitive biosensing measurements 2015 ,		1

27	Qualitative SPICE modeling accounting for volatile dynamics of TiO ₂ memristors 2014 ,		1
26	2014 ,		1
25	Thermal Effects on Initial Volatile Response and Relaxation Dynamics of Resistive RAM Devices. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	1
24	Design Flow for Hybrid CMOS/Memristor Systems--Part II: Circuit Schematics and Layout. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-13	3.9	1
23	Design Flow for Hybrid CMOS/Memristor Systems--Part I: Modeling and Verification Steps. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-14	3.9	1
22	Technology agnostic frequency characterization methodology for memristors. <i>Scientific Reports</i> , 2021 , 11, 20599	4.9	1
21	Practical operation considerations for memristive integrating sensors 2016 ,		1
20	Compact Modeling of the Switching Dynamics and Temperature Dependencies in TiO _x Memristors Part II: Physics-Based Model. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4885-4890	2.9	1
19	Computing Image and Motion with 3-D Memristive Grids 2019 , 1177-1210		0
18	A semi-holographic hyperdimensional representation system for hardware-friendly cognitive computing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190162	3	0
17	Practical demonstration of a RRAM memory fuse. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2363	2	0
16	Frequency Response of Metal-Oxide Memristors. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3636-3642	4.2	0
15	Compact Modeling of the Switching Dynamics and Temperature Dependencies in TiO _x -Based Memristors Part I: Behavioral Model. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4877-4884	2.9	0
14	Introducing the nanoworld. <i>Nature Nanotechnology</i> , 2017 , 12, 832	28.7	
13	Guest Editorial Solid-state Memristive Devices and Systems. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 121-122	5.2	
12	P396 Improved calcium cycling is associated with microtubule reorganisation in anisotropic cardiomyocyte cultures. <i>Cardiovascular Research</i> , 2014 , 103, S73.1-S73	9.9	
11	Sensing H ⁺ with conventional neural probes. <i>Applied Physics Letters</i> , 2013 , 102, 223506	3.4	
10	Surface texturing for Maxwell-Wagner polarisation engineering. <i>Micro and Nano Letters</i> , 2009 , 4, 5-8	0.9	

- 9 Application of gold nanodots for Maxwell-Wagner loss reduction. *Micro and Nano Letters*, **2009**, 4, 80-83 0.9
- 8 Interfacial polarisation on gallium arsenide membranes. *Micro and Nano Letters*, **2010**, 5, 178 0.9
- 7 An Experimental Technique for Characterizing Slow-Wave Characteristics of MIS-Like Transmission Lines Using Aqueous Dielectrics. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 985-993¹
- 6 Computing Shortest Paths in 2D and 3D Memristive Networks **2019**, 1161-1176
- 5 Poster: Memristive Systems 523-587
- 4 Nanosession: Neuromorphic Concepts 197-206
- 3 ZrOX insertion layer enhanced switching and synaptic performances of TiOX-based memristive devices. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1034, 012142 0.4
- 2 Band tailoring by annealing and current conduction of Co-doped ZnO transparent resistive switching memory. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1034, 012140 0.4
- 1 Conduction mechanism of Co-doped ZnO transparent memristive devices. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1034, 012139 0.4