

Mario Lanza

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9458650/mario-lanza-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151
papers

4,461
citations

33
h-index

62
g-index

173
ext. papers

5,610
ext. citations

8.6
avg, IF

5.82
L-index

#	Paper	IF	Citations
151	Resistive Switching Devices Producing Giant Random Telegraph Noise. <i>IEEE Electron Device Letters</i> , 2022 , 43, 146-149	4.4	
150	Hybrid architecture based on two-dimensional memristor crossbar array and CMOS integrated circuit for edge computing. <i>Npj 2D Materials and Applications</i> , 2022 , 6,	8.8	3
149	Nanoscale Characterization of Resistive Switching Using Advanced Conductive Atomic Force MicroscopyBased Setups. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2022 , 121-145		0
148	Nano-memristors with 4mV Switching Voltage Based On Surface-modified Copper Nanoparticles.. <i>Advanced Materials</i> , 2022 , e2201197	24	1
147	Production of Large-Area Nucleus-Free Single-Crystal Graphene-Mesh Metamaterials with Zigzag Edges.. <i>Advanced Materials</i> , 2022 , e2201253	24	3
146	Redefining microelectronics. <i>Microelectronic Engineering</i> , 2022 , 258, 111767	2.5	1
145	Inkjet Printing: A Cheap and Easy-to-Use Alternative to Wire Bonding for Academics. <i>Crystal Research and Technology</i> , 2022 , 57, 2100210	1.3	0
144	Memristive technologies for data storage, computation, encryption, and radio-frequency communication. <i>Science</i> , 2022 , 376,	33.3	24
143	Standards for the Characterization of Endurance in Resistive Switching Devices. <i>ACS Nano</i> , 2021 ,	16.7	36
142	Defect-Free Metal Deposition on 2D Materials via Inkjet Printing Technology. <i>Advanced Materials</i> , 2021 , e2104138	24	8
141	The development of integrated circuits based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 775-785	28.4	26
140	Growth of Two-Dimensional Materials at the Wafer Scale. <i>Advanced Materials</i> , 2021 , e2108258	24	9
139	Random Telegraph Noise in Metal-Oxide Memristors for True Random Number Generators: A Materials Study. <i>Advanced Functional Materials</i> , 2021 , 31, 2102172	15.6	8
138	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100112	6.4	15
137	Highly Accurate Thickness Determination of 2D Materials. <i>Crystal Research and Technology</i> , 2021 , 56, 2100056	1.3	3
136	Advanced Data Encryption using 2D Materials. <i>Advanced Materials</i> , 2021 , 33, e2100185	24	35
135	In Situ Observation of Low-Power Nano-Synaptic Response in Graphene Oxide Using Conductive Atomic Force Microscopy. <i>Small</i> , 2021 , 17, e2101100	11	11

134	Calcium fluoride as high-k dielectric for 2D electronics. <i>Applied Physics Reviews</i> , 2021 , 8, 021307	17.3	9
133	The performance limits of hexagonal boron nitride as an insulator for scaled CMOS devices based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 98-108	28.4	53
132	Variability and Yield in h-BN-Based Memristive Circuits: The Role of Each Type of Defect. <i>Advanced Materials</i> , 2021 , 33, e2103656	24	16
131	Field Effect Transistors: Engineering Field Effect Transistors with 2D Semiconducting Channels: Status and Prospects (Adv. Funct. Mater. 18/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070116	15.6	
130	Transmission Electron Microscopy-Based Statistical Analysis of Commercially Available Graphene Oxide Quantum Dots. <i>Crystal Research and Technology</i> , 2020 , 55, 1900231	1.3	4
129	Insulators for 2D nanoelectronics: the gap to bridge. <i>Nature Communications</i> , 2020 , 11, 3385	17.4	85
128	Electroforming in Metal-Oxide Memristive Synapses. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11806-11814	9.5	9
127	On the Limits of Scanning Thermal Microscopy of Ultrathin Films. <i>Materials</i> , 2020 , 13,	3.5	4
126	Effect of the Pressure Exerted by Probe Station Tips in the Electrical Characteristics of Memristors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901226	6.4	5
125	A Review on Principles and Applications of Scanning Thermal Microscopy (SThM). <i>Advanced Functional Materials</i> , 2020 , 30, 1900892	15.6	50
124	Water oxidation electrocatalysis using ruthenium coordination oligomers adsorbed on multiwalled carbon nanotubes. <i>Nature Chemistry</i> , 2020 , 12, 1060-1066	17.6	27
123	Wafer-scale integration of two-dimensional materials in high-density memristive crossbar arrays for artificial neural networks. <i>Nature Electronics</i> , 2020 , 3, 638-645	28.4	98
122	Fabrication of 3D silica with outstanding organic molecule separation and self-cleaning performance. <i>Applied Surface Science</i> , 2020 , 511, 145537	6.7	10
121	Dielectric Properties of Ultrathin CaF Ionic Crystals. <i>Advanced Materials</i> , 2020 , 32, e2002525	24	24
120	Yield, variability, reliability, and stability of two-dimensional materials based solid-state electronic devices. <i>Nature Communications</i> , 2020 , 11, 5689	17.4	24
119	High Solar-to-Hydrogen Conversion Efficiency at pH 7 Based on a PV-EC Cell with an Oligomeric Molecular Anode. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55856-55864	9.5	3
118	150nm × 200nm Cross-Point Hexagonal Boron Nitride-Based Memristors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900115	6.4	10
117	An Electrical Model for Trap Coupling Effects on Random Telegraph Noise. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1596-1599	4.4	4

116	Aging of a Vanadium Precursor Solution: Influencing Material Properties and Photoelectrochemical Water Oxidation Performance of Solution-Processed BiVO ₄ Photoanodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1806662	15.6	10
115	A Review on Dielectric Breakdown in Thin Dielectrics: Silicon Dioxide, High-k, and Layered Dielectrics. <i>Advanced Functional Materials</i> , 2020 , 30, 1900657	15.6	60
114	Emerging Scanning Probe-Based Setups for Advanced Nanoelectronic Research. <i>Advanced Functional Materials</i> , 2020 , 30, 1902776	15.6	4
113	Engineering Field Effect Transistors with 2D Semiconducting Channels: Status and Prospects. <i>Advanced Functional Materials</i> , 2020 , 30, 1901971	15.6	36
112	Improving the Consistency of Nanoscale Etching for Atomic Force Microscopy Tomography Applications. <i>Frontiers in Materials</i> , 2019 , 6,	4	2
111	Graphene-Boron Nitride-Graphene Cross-Point Memristors with Three Stable Resistive States. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37999-38005	9.5	29
110	Memristive Electronic Synapses Made by Anodic Oxidation. <i>Chemistry of Materials</i> , 2019 , 31, 8394-8401	9.6	16
109	Scanning probe microscopy for advanced nanoelectronics. <i>Nature Electronics</i> , 2019 , 2, 221-229	28.4	49
108	Reliability of scalable MoS ₂ FETs with 2 nm crystalline CaF ₂ insulators. <i>2D Materials</i> , 2019 , 6, 045004	5.9	15
107	2019 ,		1
106	Time series statistical analysis: A powerful tool to evaluate the variability of resistive switching memories. <i>Journal of Applied Physics</i> , 2019 , 125, 174504	2.5	23
105	In Situ Observation of Current Generation in ZnO Nanowire Based Nanogenerators Using a CAFM Integrated into an SEM. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15183-15188	9.5	11
104	Chemical vapor deposition of hexagonal boron nitride on metal-coated wafers and transfer-free fabrication of resistive switching devices. <i>2D Materials</i> , 2019 , 6, 035021	5.9	15
103	Understanding Current Instabilities in Conductive Atomic Force Microscopy. <i>Materials</i> , 2019 , 12,	3.5	7
102	Conductive AFM of 2D Materials and Heterostructures for Nanoelectronics. <i>Nanoscience and Technology</i> , 2019 , 303-350	0.6	6
101	Variability of metal/h-BN/metal memristors grown via chemical vapor deposition on different materials. <i>Microelectronics Reliability</i> , 2019 , 102, 113410	1.2	4
100	Potassium Hydroxide Mixed with Lithium Hydroxide: An Advanced Electrolyte for Oxygen Evolution Reaction. <i>Solar Rrl</i> , 2019 , 3, 1900195	7.1	4
99	Effect of IrO ₂ Spatial Distribution on the Stability and Charge Distribution of Ti _{1-x} Ir _x O ₂ Alloys. <i>Chemistry of Materials</i> , 2019 , 31, 8742-8751	9.6	1

98	Recommended Methods to Study Resistive Switching Devices. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800143	6.4	297
97	Scaling the CBRAM Switching Layer Diameter to 30 nm Improves Cycling Endurance. <i>IEEE Electron Device Letters</i> , 2018 , 39, 23-26	4.4	20
96	Experimental Observation and Mitigation of Dielectric Screening in Hexagonal Boron Nitride Based Resistive Switching Devices. <i>Crystal Research and Technology</i> , 2018 , 53, 1800006	1.3	6
95	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. <i>Nanoscale</i> , 2018 , 10, 5522-5531	7.7	22
94	Bimodal Dielectric Breakdown in Electronic Devices Using Chemical Vapor Deposited Hexagonal Boron Nitride as Dielectric. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700506	6.4	10
93	Nanoscale Potential Fluctuations in Zirconium Oxide and the Flash Memory Based on Electron and Hole Localization. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700592	6.4	2
92	Electronic synapses made of layered two-dimensional materials. <i>Nature Electronics</i> , 2018 , 1, 458-465	28.4	316
91	2018 ,		8
90	On the Limits of Scalpel AFM for the 3D Electrical Characterization of Nanomaterials. <i>Advanced Functional Materials</i> , 2018 , 28, 1802266	15.6	14
89	Synthesis of large-area multilayer hexagonal boron nitride sheets on iron substrates and its use in resistive switching devices. <i>2D Materials</i> , 2018 , 5, 031011	5.9	29
88	Coexistence of Grain-Boundaries-Assisted Bipolar and Threshold Resistive Switching in Multilayer Hexagonal Boron Nitride. <i>Advanced Functional Materials</i> , 2017 , 27, 1604811	15.6	149
87	High-resolution characterization of hexagonal boron nitride coatings exposed to aqueous and air oxidative environments. <i>Nano Research</i> , 2017 , 10, 2046-2055	10	15
86	Enhanced piezoelectric effect at the edges of stepped molybdenum disulfide nanosheets. <i>Nanoscale</i> , 2017 , 9, 6237-6245	7.7	17
85	Sputtering and amorphization of crystalline semiconductors by Nanodroplet Bombardment. <i>Crystal Research and Technology</i> , 2017 , 52, 1600240	1.3	1
84	Nanoscale characterization of resistive switching using advanced conductive atomic force microscopy based setups. <i>Journal of Electroceramics</i> , 2017 , 39, 94-108	1.5	22
83	Model for multi-filamentary conduction in graphene/hexagonal-boron-nitride/graphene based resistive switching devices. <i>2D Materials</i> , 2017 , 4, 025099	5.9	33
82	Graphene and Related Materials for Resistive Random Access Memories. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600195	6.4	137
81	Distinguishing Oxygen Vacancy Electromigration and Conductive Filament Formation in TiO Resistance Switching Using Liquid Electrolyte Contacts. <i>Nano Letters</i> , 2017 , 17, 4390-4399	11.5	36

80	Substitution of native silicon oxide by titanium in Ni-coated silicon photoanodes for water splitting solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1996-2003	13	19
79	Variability of graphene devices fabricated using graphene inks: Atomic force microscope tips. <i>Surface and Coatings Technology</i> , 2017 , 320, 391-395	4-4	5
78	(SIM^2RRAM): a physical model for RRAM devices simulation. <i>Journal of Computational Electronics</i> , 2017 , 16, 1095-1120	1.8	37
77	Dielectric Breakdown in Chemical Vapor Deposited Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39758-39770	9.5	31
76	Investigation of High-k Dielectric Stacks by C-AFM: Advantages, Limitations, and Possible Applications 2017 , 79-118		
75	Piezoelectricity in two dimensions: Graphene vs. molybdenum disulfide. <i>Applied Physics Letters</i> , 2017 , 111, 083107	3.4	17
74	History and Status of the CAFM 2017 , 1-28		6
73	Combination of Semiconductor Parameter Analyzer and Conductive Atomic Force Microscope for Advanced Nanoelectronic Characterization 2017 , 225-241		
72	Design and Fabrication of a Logarithmic Amplifier for Scanning Probe Microscopes to Allow Wide-Range Current Measurements 2017 , 243-262		
71	Enhanced Current Dynamic Range Using ResiScope and Soft-ResiScope AFM Modes 2017 , 263-276		1
70	Multiprobe Electrical Measurements without Optical Interference 2017 , 277-295		1
69	KPFM and its Use to Characterize the CPD in Different Materials 2017 , 297-317		3
68	Fabrication and Reliability of Conductive AFM Probes 2017 , 29-44		4
67	Fundamentals of CAFM Operation Modes 2017 , 45-77		1
66	Characterization of Grain Boundaries in Polycrystalline HfO ₂ Dielectrics 2017 , 119-131		
65	Conductive Atomic Force Microscopy of Two-Dimensional Electron Systems: From AlGa _N /Ga _N Heterostructures to Graphene and MoS ₂ 2017 , 163-185		7
64	Nanoscale Three-Dimensional Characterization with Scalpel SPM 2017 , 187-210		4
63	Photo-electrochemical water splitting in silicon based photocathodes enhanced by plasmonic/catalytic nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 225, 128-133	3.1	9

62	Resistive Random Access Memory Cells with a Bilayer TiO ₂ /SiO _x Insulating Stack for Simultaneous Filamentary and Distributed Resistive Switching. <i>Advanced Functional Materials</i> , 2017 , 27, 1700384	15.6	53
61	Electrical Homogeneity of Large-Area Chemical Vapor Deposited Multilayer Hexagonal Boron Nitride Sheets. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39895-39900	9.5	15
60	2017 ,		4
59	Coexistence of volatile and non-volatile resistive switching in 2D h-BN based electronic synapses 2017 ,		10
58	Graphene Coated Nanoprobes: A Review. <i>Crystals</i> , 2017 , 7, 269	2.3	6
57	Fabrication of scalable and ultra low power photodetectors with high light/dark current ratios using polycrystalline monolayer MoS ₂ sheets. <i>Nano Energy</i> , 2016 , 30, 494-502	17.1	16
56	On the use of two dimensional hexagonal boron nitride as dielectric. <i>Microelectronic Engineering</i> , 2016 , 163, 119-133	2.5	77
55	CuO-Functionalized Silicon Photoanodes for Photoelectrochemical Water Splitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 696-702	9.5	24
54	Suppression of nanowire clustering in hybrid energy harvesters. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 3646-3653	7.1	5
53	Moving graphene devices from lab to market: advanced graphene-coated nanopropes. <i>Nanoscale</i> , 2016 , 8, 8466-73	7.7	21
52	Characterization of the photocurrents generated by the laser of atomic force microscopes. <i>Review of Scientific Instruments</i> , 2016 , 87, 083703	1.7	4
51	Boron nitride as two dimensional dielectric: Reliability and dielectric breakdown. <i>Applied Physics Letters</i> , 2016 , 108, 012905	3.4	72
50	2D h-BN based RRAM devices 2016 ,		20
49	Ageing mechanisms of highly active and stable nickel-coated silicon photoanodes for water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8053-8060	13	27
48	Mechanical properties of locally oxidized graphene electrodes. <i>Archive of Applied Mechanics</i> , 2015 , 85, 339-345	2.2	6
47	A Future Way of Storing Information: Resistive Random Access Memory.. <i>IEEE Nanotechnology Magazine</i> , 2015 , 9, 12-17	1.7	6
46	On the ageing mechanisms of graphene-on-metal electrodes 2015 ,		2
45	In Situ Demonstration of the Link Between Mechanical Strength and Resistive Switching in Resistive Random-Access Memories. <i>Advanced Electronic Materials</i> , 2015 , 1, 1400058	6.4	13

44	Nanoscale characterization of PM2.5 airborne pollutants reveals high adhesiveness and aggregation capability of soot particles. <i>Scientific Reports</i> , 2015 , 5, 11232	4.9	49
43	Note: Fabrication of a fast-response and user-friendly environmental chamber for atomic force microscopes. <i>Review of Scientific Instruments</i> , 2015 , 86, 106105	1.7	3
42	Improvement of the electrical contact resistance at rough interfaces using two dimensional materials. <i>Journal of Applied Physics</i> , 2015 , 118, 215301	2.5	1
41	High-Performance Piezoelectric Nanogenerators Using Two-Dimensional Flexible Top Electrodes. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300101	4.6	21
40	A Conductive AFM Nanoscale Analysis of NBTI and Channel Hot-Carrier Degradation in MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3118-3124	2.9	6
39	Ageing mechanisms and reliability of graphene-based electrodes. <i>Nano Research</i> , 2014 , 7, 1820-1831	10	22
38	(Invited) Elucidating the Origin of Resistive Switching in Ultrathin Hafnium Oxides through High Spatial Resolution Tools. <i>ECS Transactions</i> , 2014 , 64, 19-28	1	13
37	A Review on Resistive Switching in High-k Dielectrics: A Nanoscale Point of View Using Conductive Atomic Force Microscope. <i>Materials</i> , 2014 , 7, 2155-2182	3.5	186
36	On the properties of conducting filament in ReRAM 2014 ,		4
35	Analysis of Factors in the Nanoscale Physical and Electrical Characterization of High-K Materials by Conductive Atomic Force Microscope. <i>Integrated Ferroelectrics</i> , 2014 , 153, 1-8	0.8	1
34	Morphology and performance of graphene layers on as-grown and transferred substrates. <i>Acta Mechanica</i> , 2014 , 225, 1061-1073	2.1	9
33	Electrical and mechanical performance of graphene sheets exposed to oxidative environments. <i>Nano Research</i> , 2013 , 6, 485-495	10	38
32	Leakage current through the poly-crystalline HfO ₂ : Trap densities at grains and grain boundaries. <i>Journal of Applied Physics</i> , 2013 , 114, 134503	2.5	60
31	High-performance silicon photoanodes passivated with ultrathin nickel films for water oxidation. <i>Science</i> , 2013 , 342, 836-40	33.3	549
30	Nanogap based graphene coated AFM tips with high spatial resolution, conductivity and durability. <i>Nanoscale</i> , 2013 , 5, 10816-23	7.7	14
29	Nanoscale and device level electrical behavior of annealed ALD Hf-based gate oxide stacks grown with different precursors. <i>Microelectronics Reliability</i> , 2013 , 53, 867-871	1.2	7
28	Tuning graphene morphology by substrate towards wrinkle-free devices: Experiment and simulation. <i>Journal of Applied Physics</i> , 2013 , 113, 104301	2.5	46
27	Channel hot-carriers degradation in MOSFETs: A conductive AFM study at the nanoscale 2013 ,		2

26	Graphene-coated atomic force microscope tips for reliable nanoscale electrical characterization. <i>Advanced Materials</i> , 2013 , 25, 1440-4	24	44
25	The trace element content of top-soil and wild edible mushroom samples collected in Tuscany, Italy. <i>Environmental Monitoring and Assessment</i> , 2012 , 184, 7579-95	3.1	55
24	Gate current analysis of AlGaIn/GaN on silicon heterojunction transistors at the nanoscale. <i>Applied Physics Letters</i> , 2012 , 101, 093505	3.4	13
23	Nanoscale investigation of AlGaIn/GaN-on-Si high electron mobility transistors. <i>Nanotechnology</i> , 2012 , 23, 395204	3.4	12
22	Nanoscale observations of resistive switching high and low conductivity states on TiN/HfO ₂ /Pt structures. <i>Microelectronics Reliability</i> , 2012 , 52, 2110-2114	1.2	12
21	Resistive switching in hafnium dioxide layers: Local phenomenon at grain boundaries. <i>Applied Physics Letters</i> , 2012 , 101, 193502	3.4	132
20	Grain boundaries as preferential sites for resistive switching in the HfO ₂ resistive random access memory structures. <i>Applied Physics Letters</i> , 2012 , 100, 123508	3.4	142
19	Micro and nano analysis of 0.2 μm Ti/Al/Ni/Au ohmic contact to AlGaIn/GaN. <i>Applied Physics Letters</i> , 2011 , 99, 213504	3.4	40
18	Polycrystallization effects on the nanoscale electrical properties of high-k dielectrics. <i>Nanoscale Research Letters</i> , 2011 , 6, 108	5	26
17	Time-dependent variability of high-k based MOS devices: Nanoscale characterization and inclusion in circuit simulators 2011 ,		12
16	Conductivity and Charge Trapping After Electrical Stress in Amorphous and Polycrystalline Al ₂ O ₃ -Based Devices Studied With AFM-Related Techniques. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 344-351	2.6	29
15	Grain boundary mediated leakage current in polycrystalline HfO ₂ films. <i>Microelectronic Engineering</i> , 2011 , 88, 1272-1275	2.5	83
14	Reliability and gate conduction variability of HfO ₂ -based MOS devices: A combined nanoscale and device level study. <i>Microelectronic Engineering</i> , 2011 , 88, 1334-1337	2.5	6
13	Nanoscale and Device Level Gate Conduction Variability of High-k Dielectrics-Based Metal-Oxide-Semiconductor Structures. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011 , 11, 495-501	1.6	10
12	Degradation of polycrystalline HfO ₂ -based gate dielectrics under nanoscale electrical stress. <i>Applied Physics Letters</i> , 2011 , 99, 103510	3.4	35
11	Note: Electrical resolution during conductive atomic force microscopy measurements under different environmental conditions and contact forces. <i>Review of Scientific Instruments</i> , 2010 , 81, 106110	1.7	42
10	UHV CAFM characterization of high-k dielectrics: Effect of the technique resolution on the pre- and post-breakdown electrical measurements. <i>Microelectronics Reliability</i> , 2010 , 50, 1312-1315	1.2	32
9	. <i>IEEE Transactions on Device and Materials Reliability</i> , 2009 , 9, 529-536	1.6	11

8	Development of a conductive atomic force microscope with a logarithmic current-to-voltage converter for the study of metal oxide semiconductor gate dielectrics reliability. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 360		9
7	Trapped charge and stress induced leakage current (SILC) in tunnel SiO ₂ layers of de-processed MOS non-volatile memory devices observed at the nanoscale. <i>Microelectronics Reliability</i> , 2009 , 49, 1188-1191	1.2	7
6	Crystallization and silicon diffusion nanoscale effects on the electrical properties of Al ₂ O ₃ based devices. <i>Microelectron Engineering</i> , 2009 , 86, 1921-1924	2.5	25
5	Improving the electrical performance of a conductive atomic force microscope with a logarithmic current-to-voltage converter. <i>Review of Scientific Instruments</i> , 2008 , 79, 073701	1.7	15
4	Influence of the manufacturing process on the electrical properties of thin (. <i>Microelectronics Reliability</i> , 2007 , 47, 1424-1428	1.2	27
3	2022 roadmap on neuromorphic computing and engineering. <i>Neuromorphic Computing and Engineering</i> ,		24
2	Temperature of Conductive Nanofilaments in Hexagonal Boron Nitride Based Memristors Showing Threshold Resistive Switching. <i>Advanced Electronic Materials</i> ,2100580	6.4	4
1	Memristors with Initial Low-Resistive State for Efficient Neuromorphic Systems. <i>Advanced Intelligent Systems</i> ,2200001	6	3