

Xiaoning Zhao

List of Publications by Year in descending order

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64
papers

1,811
citations

257450

24
h-index

276875

41
g-index

65
all docs

65
docs citations

65
times ranked

1870
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Graphene Oxide Conformally Wrapped Silver Nanowire Networks for Flexible Transparent Heating and Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020, 14, 8754-8765.	14.6	135
2	Toward a generalized Bienenstock-Cooper-Munro rule for spatiotemporal learning via triplet-STDP in memristive devices. <i>Nature Communications</i> , 2020, 11, 1510.	12.8	124
3	Fe@C nanocapsules with substitutional sulfur heteroatoms in graphitic shells for improving microwave absorption at gigahertz frequencies. <i>Carbon</i> , 2018, 126, 372-381.	10.3	122
4	Memristors with organic-inorganic halide perovskites. <i>Informa-Ån-Å-Materi-Åily</i> , 2019, 1, 183-210.	17.3	111
5	Biodegradable Natural Pectin-Based Flexible Multilevel Resistive Switching Memory for Transient Electronics. <i>Small</i> , 2019, 15, e1803970.	10.0	109
6	Nonvolatile/volatile behaviors and quantized conductance observed in resistive switching memory based on amorphous carbon. <i>Carbon</i> , 2015, 91, 38-44.	10.3	90
7	Plasmonic Optoelectronic Memristor Enabling Fully Light-Modulated Synaptic Plasticity for Neuromorphic Vision. <i>Advanced Science</i> , 2022, 9, e2104632.	11.2	81
8	Reversible alternation between bipolar and unipolar resistive switching in Ag/MoS ₂ /Au structure for multilevel flexible memory. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7195-7200.	5.5	63
9	Photoassisted Electroforming Method for Reliable Low-Power Organic-Inorganic Perovskite Memristors. <i>Advanced Functional Materials</i> , 2020, 30, 1910151.	14.9	62
10	Transferable and Flexible Artificial Memristive Synapse Based on WO _x Schottky Junction on Arbitrary Substrates. <i>Advanced Electronic Materials</i> , 2018, 4, 1800373.	5.1	58
11	Photocatalytic Reduction of Graphene Oxide-TiO ₂ Nanocomposites for Improving Resistive Switching Memory Behaviors. <i>Small</i> , 2018, 14, e1801325.	10.0	58
12	Cycling-Induced Degradation of Organic-Inorganic Perovskite-Based Resistive Switching Memory. <i>Advanced Materials Technologies</i> , 2019, 4, 1800238.	5.8	47
13	Photoreduced nanocomposites of graphene oxide/N-doped carbon dots toward all-carbon memristive synapses. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	47
14	Moisture-powered memristor with interfacial oxygen migration for power-free reading of multiple memory states. <i>Nano Energy</i> , 2020, 71, 104628.	16.0	44
15	Humidity Effect on Resistive Switching Characteristics of the CH ₃ NH ₃ PbI ₃ Memristor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28555-28563.	8.0	43
16	Ultralight and high-elastic carbon foam with hollow framework for dynamically tunable electromagnetic interference shielding at gigahertz frequency. <i>Carbon</i> , 2019, 153, 330-336.	10.3	42
17	Highly uniform switching of HfO ₂ based RRAM achieved through Ar plasma treatment for low power and multilevel storage. <i>Applied Surface Science</i> , 2018, 458, 216-221.	6.1	39
18	Oxidized carbon quantum dot-graphene oxide nanocomposites for improving data retention of resistive switching memory. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2026-2033.	5.5	36

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19	Analytical Modeling of Organic-Inorganic $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Resistive Switching and its Application for Neuromorphic Recognition. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700035.	2.8	35
20	Analog-Digital Hybrid Memristive Devices for Image Pattern Recognition with Tunable Learning Accuracy and Speed. <i>Small Methods</i> , 2019, 3, 1900160.	8.6	31
21	Sp^2 clustering-induced improvement of resistive switching uniformity in Cu/amorphous carbon/Pt electrochemical metallization memory. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5420-5425.	5.5	26
22	Insertion of Nanoscale AgInSbTe Layer between the Ag Electrode and the $\text{CH}_3\text{NH}_3\text{PbI}_3$ Electrolyte Layer Enabling Enhanced Multilevel Memory. <i>ACS Applied Nano Materials</i> , 2019, 2, 307-314.	5.0	26
23	Ultralight Fe@C Nanocapsules/Sponge Composite with Reversibly Tunable Microwave Absorption Performances. <i>Nanotechnology</i> , 2017, 28, 325702.	2.6	25
24	Complementary Resistive Switching Observed in Graphene Oxide-Based Memory Device. <i>IEEE Electron Device Letters</i> , 2018, 39, 488-491.	3.9	25
25	Flexible TiN/Co@Carbon nanofiber mats for high-performance electromagnetic interference shielding and Joule heating applications. <i>Carbon</i> , 2022, 196, 612-620.	10.3	22
26	Reliability Improvement of Amorphous Carbon Based Resistive Switching Memory by Inserting Nanoporous Layer. <i>IEEE Electron Device Letters</i> , 2016, 37, 1430-1433.	3.9	21
27	Nitrogen-induced ultralow power switching in flexible ZnO-based memristor for artificial synaptic learning. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	21
28	Phosphorus vacancy-engineered Ce-doped CoP nanosheets for the electrocatalytic oxidation of 5-hydroxymethylfurfural. <i>Chemical Communications</i> , 2022, 58, 7817-7820.	4.1	19
29	Photo-tunable organic resistive random access memory based on PVP/N-doped carbon dot nanocomposites for encrypted image storage. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14789-14795.	5.5	18
30	Silent Synapse Activation by Plasma-Induced Oxygen Vacancies in TiO_2 Nanowire-Based Memristor. <i>Advanced Electronic Materials</i> , 2020, 6, 2000536.	5.1	17
31	Flexible and transparent memristive synapse based on polyvinylpyrrolidone/N-doped carbon quantum dot nanocomposites for neuromorphic computing. <i>Nanoscale Advances</i> , 2021, 3, 2623-2631.	4.6	17
32	Improved switching reliability achieved in HfOx based RRAM with mountain-like surface-graphited carbon layer. <i>Applied Surface Science</i> , 2018, 440, 107-112.	6.1	16
33	Dual Buffer Layers for Developing Electrochemical Metallization Memory With Low Current and High Endurance. <i>IEEE Electron Device Letters</i> , 2021, 42, 308-311.	3.9	16
34	A new phosphonium-based ionic liquid to synthesize nickel metaphosphate for hydrogen evolution reaction. <i>Nanotechnology</i> , 2020, 31, 505402.	2.6	14
35	Intensity-modulated LED achieved through integrating p-GaN/n-ZnO heterojunction with multilevel RRAM. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	13
36	Zeolite-Based Memristive Synapse with Ultralow Sub-10 ⁻⁶ Energy Consumption for Neuromorphic Computation. <i>Small</i> , 2021, 17, e2006662.	10.0	13

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37	Graphite Microislands Prepared for Reliability Improvement of Amorphous Carbon Based Resistive Switching Memory. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800285.	2.4	12
38	The Nature of Lithium Ion Transport in Low Power Consumption LiFePO ₄ Resistive Memory with Graphite as Electrode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800320.	2.4	11
39	Organic-Inorganic Perovskite Memristors: Photoassisted Electroforming Method for Reliable Low-Power Organic-Inorganic Perovskite Memristors (<i>Adv. Funct. Mater.</i> 17/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070111.	14.9	11
40	Confining Gold Nanoclusters in Highly Defective Graphitic Layers To Enhance the Methanol Electrooxidation Reaction. <i>ChemCatChem</i> , 2018, 10, 141-147.	3.7	9
41	Resistive switching performance improvement of amorphous carbon-based electrochemical metallization memory via current stressing. <i>Applied Physics Letters</i> , 2019, 115, 073501.	3.3	9
42	Pavlovian conditioning achieved via one-transistor/one-resistor memristive synapse. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
43	Voltage-dependent plasticity and image Boolean operations realized in a WO _x -based memristive synapse. <i>Journal of Semiconductors</i> , 2021, 42, 014102.	3.7	7
44	Self-Powered Memristive Systems for Storage and Neuromorphic Computing. <i>Frontiers in Neuroscience</i> , 2021, 15, 662457.	2.8	7
45	Flexible Artificial Synapses: Transferable and Flexible Artificial Memristive Synapse Based on WO _x /Schottky Junction on Arbitrary Substrates (<i>Adv. Electron. Mater.</i> 12/2018). <i>Advanced Electronic Materials</i> , 2018, 4, 1870056.	5.1	6
46	Memory Devices: Photocatalytic Reduction of Graphene Oxide-TiO ₂ Nanocomposites for Improving Resistive-Switching Memory Behaviors (<i>Small</i> 29/2018). <i>Small</i> , 2018, 14, 1870136.	10.0	4
47	Transient Electronics: Biodegradable Natural Pectin-Based Flexible Multilevel Resistive Switching Memory for Transient Electronics (<i>Small</i> 4/2019). <i>Small</i> , 2019, 15, 1970025.	10.0	4
48	Reliable restriction of conductive filament in graphene oxide based RRAM devices enabled by a locally graphitized amorphous carbon layer. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 054002.	1.5	4
49	Rapid microwave annealing of CH ₃ NH ₃ PbI ₃ with controllable crystallization for enhancing the resistive-switching performance. <i>Semiconductor Science and Technology</i> , 2021, 36, 095012.	2.0	4
50	Effect of reset voltage polarity on the resistive switching region of unipolar memory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2255-2261.	1.8	3
51	Ultralight and ultraelastic sponge/Al@Al ₂ O ₃ nanocomposite with tunable electromagnetic properties. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	3
52	Resistive Switching: Cycling-Induced Degradation of Organic-Inorganic Perovskite-Based Resistive Switching Memory (<i>Adv. Mater. Technol.</i> 1/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970004.	5.8	3
53	Neutron irradiation-induced effects on the reliability performance of electrochemical metallization memory devices. <i>Journal of Semiconductors</i> , 2021, 42, 014103.	3.7	3
54	High switching uniformity and 50 fJ/bit energy consumption achieved in amorphous silicon-based memristive device with an AgInSbTe buffer layer. <i>Applied Physics Letters</i> , 2021, 118, 263507.	3.3	3

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55	Thermal-assisted electroforming enables performance improvement by suppressing the overshoot current in amorphous carbon-based electrochemical metallization memory. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
56	Photocatalysis-Induced Nanopores toward Highly Reliable Organic Electrochemical Metallization Memory. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	3
57	Analytical modeling of electrochemical metallization memory device with dual-layer structure of Ag/AgInSbTe/amorphous C/Pt. <i>Semiconductor Science and Technology</i> , 2020, 35, 02LT01.	2.0	2
58	Conductance Quantization in $\text{CH}_3\text{NH}_3\text{PbI}_3$ Memristor. <i>IEEE Electron Device Letters</i> , 2022, 43, 1037-1040.	3.9	2
59	The Nature of Lithium-Ion Transport in Low Power Consumption LiFePO_4 Resistive Memory with Graphite as Electrode (<i>Phys. Status Solidi RRL</i> 10/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1870333.	2.4	1
60	Electric-Field-Triggered Electromagnetic Polarizations in the Close-Packed Fe at C Nanocapsules. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	1
61	Multilevel Resistive Switching in TiN Heterostructure Memory. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 130-134.	0.9	1
62	Memristive Devices: Analog-Digital Hybrid Memristive Devices for Image Pattern Recognition with Tunable Learning Accuracy and Speed (<i>Small Methods</i> 10/2019). <i>Small Methods</i> , 2019, 3, 1970031.	8.6	0
63	Two-terminal optoelectronic memory device. , 2020, , 75-105.		0
64	Memristive Neural Networks: Zeolite-Based Memristive Synapse with Ultralow Sub-10 ⁻⁶ Energy Consumption for Neuromorphic Computation (<i>Small</i> 13/2021). <i>Small</i> , 2021, 17, 2170057.	10.0	0