

# Bai Sun

## List of Publications by Year in descending order

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192  
papers

6,277  
citations

47006

47  
h-index

106344

65  
g-index

200  
all docs

200  
docs citations

200  
times ranked

5048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coexistence of Negative Differential Resistance and Resistive Switching Memory at Room Temperature in TiO <sub>x</sub> Modulated by Moisture. <i>Advanced Electronic Materials</i> , 2018, 4, 1700567.	5.1	147
2	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Current–Voltage Hysteresis Loop. <i>Nano Letters</i> , 2019, 19, 6461-6465.	9.1	128
3	An organic nonvolatile resistive switching memory device fabricated with natural pectin from fruit peel. <i>Organic Electronics</i> , 2017, 42, 181-186.	2.6	119
4	Artificial and wearable albumen protein memristor arrays with integrated memory logic gate functionality. <i>Materials Horizons</i> , 2019, 6, 1877-1882.	12.2	116
5	Resistive switching memory integrated with amorphous carbon-based nanogenerators for self-powered device. <i>Nano Energy</i> , 2019, 63, 103793.	16.0	111
6	Biomemristors as the next generation bioelectronics. <i>Nano Energy</i> , 2020, 75, 104938.	16.0	110
7	Synaptic devices based neuromorphic computing applications in artificial intelligence. <i>Materials Today Physics</i> , 2021, 18, 100393.	6.0	110
8	Enhanced resistive switching effect upon illumination in self-assembled NiWO <sub>4</sub> nano-nests. <i>Chemical Communications</i> , 2014, 50, 13142-13145.	4.1	107
9	Polymer-Mediated Self-Assembly of TiO <sub>2</sub> @Cu <sub>2</sub> O Core–Shell Nanowire Array for Highly Efficient Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6082-6092.	8.0	105
10	Effective removal of fluoride by porous MgO nanoplates and its adsorption mechanism. <i>Journal of Alloys and Compounds</i> , 2016, 675, 292-300.	5.5	103
11	Capacitive effect: An original of the resistive switching memory. <i>Nano Energy</i> , 2020, 68, 104386.	16.0	102
12	Fabrication of CeO <sub>2</sub> nanoparticle-modified silk for UV protection and antibacterial applications. <i>Journal of Colloid and Interface Science</i> , 2014, 435, 8-14.	9.4	98
13	Negative Photoconductance Effect: An Extension Function of the TiO <sub>x</sub> -Based Memristor. <i>Advanced Science</i> , 2021, 8, 2003765.	11.2	94
14	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	94
15	Investigation of the behaviour of electronic resistive switching memory based on MoSe <sub>2</sub> -doped ultralong Se microwires. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	86
16	The DNA strand assisted conductive filament mechanism for improved resistive switching memory. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12149-12155.	5.5	82
17	Perforated Pd Nanosheets with Crystalline/Amorphous Heterostructures as a Highly Active Robust Catalyst toward Formic Acid Oxidation. <i>Small</i> , 2019, 15, e1904245.	10.0	81
18	Layered and Heterostructured Pd/PdWCr Sheet-Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2020, 30, 2003933.	14.9	81

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19	ABO <sub>3</sub> multiferroic perovskite materials for memristive memory and neuromorphic computing. <i>Nanoscale Horizons</i> , 2021, 6, 939-970.	8.0	79
20	Investigation of a submerging redox behavior in Fe <sub>2</sub> O <sub>3</sub> solid electrolyte for resistive switching memory. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	78
21	Photo-induced negative differential resistance in a resistive switching memory device based on BiFeO <sub>3</sub> /ZnO heterojunctions. <i>Applied Materials Today</i> , 2019, 14, 21-28.	4.3	76
22	Magnetic-field and white-light controlled resistive switching behaviors in Ag/[BiFeO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> ]/FTO device. <i>RSC Advances</i> , 2015, 5, 13513-13518.	3.6	72
23	From dead leaves to sustainable organic resistive switching memory. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 774-778.	9.4	72
24	Weak polyelectrolyte-based multilayers via layer-by-layer assembly: Approaches, properties, and applications. <i>Advances in Colloid and Interface Science</i> , 2020, 282, 102200.	14.7	72
25	Two-dimensional Blue-AsP monolayers with tunable direct band gap and ultrahigh carrier mobility show promising high-performance photovoltaic properties. <i>Nanoscale</i> , 2019, 11, 8260-8269.	5.6	70
26	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. <i>Journal of Colloid and Interface Science</i> , 2019, 537, 366-374.	9.4	68
27	CoP Nanoparticles in Situ Grown in Three-Dimensional Hierarchical Nanoporous Carbons as Superior Electrocatalysts for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20720-20729.	8.0	67
28	Wide pH range for fluoride removal from water by MHS-MgO/MgCO <sub>3</sub> adsorbent: Kinetic, thermodynamic and mechanism studies. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 194-202.	9.4	62
29	Controllable Synthesis of Web-footed PdCu Nanosheets and Their Electrocatalytic Applications. <i>Small</i> , 2022, 18, e2107623.	10.0	62
30	White-Light-Controlled Magnetic and Ferroelectric Properties in Multiferroic BiFeO <sub>3</sub> Square Nanosheets. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18814-18819.	3.1	60
31	Efficient removal of fluoride by hierarchical MgO microspheres: Performance and mechanism study. <i>Applied Surface Science</i> , 2015, 357, 1080-1088.	6.1	60
32	A flexible nonvolatile resistive switching memory device based on ZnO film fabricated on a foldable PET substrate. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 19-24.	9.4	59
33	Oxide-based RRAM switching mechanism: A new ion-transport-recombination model. , 2008, , .		58
34	Hydrothermal synthesis and resistive switching behaviour of WO <sub>3</sub> /CoWO <sub>4</sub> core-shell nanowires. <i>CrystEngComm</i> , 2014, 16, 9891-9895.	2.6	58
35	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7352-7364.	10.3	57
36	Overwhelming coexistence of negative differential resistance effect and RRAM. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20635-20640.	2.8	57

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37	A nonvolatile organic resistive switching memory based on lotus leaves. <i>Chemical Physics</i> , 2019, 516, 168-174.	1.9	57
38	From Memristive Materials to Neural Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 54243-54265.	8.0	56
39	Facile one-pot surfactant-free synthesis of uniform Pd <sub>6</sub> Co nanocrystals on 3D graphene as an efficient electrocatalyst toward formic acid oxidation. <i>Nanoscale</i> , 2016, 8, 1905-1909.	5.6	52
40	Effect of Cu ions assisted conductive filament on resistive switching memory behaviors in ZnFe <sub>2</sub> O <sub>4</sub> -based devices. <i>Journal of Alloys and Compounds</i> , 2017, 694, 464-470.	5.5	52
41	Mechanism analysis of a flexible organic memristive memory with capacitance effect and negative differential resistance state. <i>APL Materials</i> , 2019, 7, .	5.1	51
42	Resistive switching behaviors and memory logic functions in single MnO <sub>x</sub> nanorod modulated by moisture. <i>Chemical Communications</i> , 2019, 55, 9915-9918.	4.1	51
43	Existence of Resistive Switching Memory and Negative Differential Resistance State in Self-Colored MoS <sub>2</sub> /ZnO Heterojunction Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 318-324.	4.3	51
44	Metal ion formed conductive filaments by redox process induced nonvolatile resistive switching memories in MoS <sub>2</sub> film. <i>Applied Surface Science</i> , 2017, 426, 812-816.	6.1	50
45	Nanorod Array of SnO <sub>2</sub> Quantum Dot Interspersed Multiphase TiO <sub>2</sub> Heterojunctions with Highly Photocatalytic Water Splitting and Self-Rechargeable Battery-Like Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 2071-2081.	8.0	48
46	Significance of wall number on the carbon nanotube support-promoted electrocatalytic activity of Pt NPs towards methanol/formic acid oxidation reactions in direct alcohol fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1961-1971.	10.3	47
47	Metal Ions Redox Induced Repeatable Nonvolatile Resistive Switching Memory Behavior in Biomaterials. <i>ACS Applied Bio Materials</i> , 2018, 1, 496-501.	4.6	47
48	Evolution map of the memristor: from pure capacitive state to resistive switching state. <i>Nanoscale</i> , 2019, 11, 17222-17229.	5.6	45
49	Development of a nanosphere adsorbent for the removal of fluoride from water. <i>Journal of Colloid and Interface Science</i> , 2016, 475, 17-25.	9.4	44
50	Facile one-pot synthesis of lepidocrocite (̢-FeOOH) nanoflakes for water treatment. <i>New Journal of Chemistry</i> , 2013, 37, 2551.	2.8	42
51	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Self-Assembled Graphene Quantum Dots for Hydrogen Evolution. <i>ChemSusChem</i> , 2017, 10, 1014-1021.	6.8	42
52	A resistive switching memory device with a negative differential resistance at room temperature. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	41
53	Non-zero-crossing current-voltage hysteresis behavior induced by capacitive effects in bio-memristor. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 565-571.	9.4	41
54	Refining the Negative Differential Resistance Effect in a TiO <sub>x</sub> -Based Memristor. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5377-5383.	4.6	41

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55	White-light-controlled ferromagnetic and ferroelectric properties of multiferroic single-crystalline BiFeO <sub>3</sub> nanoflowers at room temperature. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7547.	5.5	38
56	Simple sol-gel method synthesis of 3-dimension Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -TiO <sub>2</sub> nanostructures using butterfly wings as biotemplates for high rate performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 705, 58-63.	5.5	38
57	Controlled self-assembly of Ni foam supported poly(ethyleneimine)/reduced graphene oxide three-dimensional composite electrodes with remarkable synergistic effects for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1201-1210.	10.3	38
58	Versatile memristor for memory and neuromorphic computing. <i>Nanoscale Horizons</i> , 2022, 7, 299-310.	8.0	38
59	Non-“zero-crossing current-voltage hysteresis behavior in memristive system. <i>Materials Today Advances</i> , 2020, 6, 100056.	5.2	37
60	A facile template free solution approach for the synthesis of dypingite nanowires and subsequent decomposition to nanoporous MgO nanowires with excellent arsenate adsorption properties. <i>RSC Advances</i> , 2013, 3, 5430.	3.6	36
61	Diethylenetriamine-mediated self-assembly of three-dimensional hierarchical nanoporous CoP nanoflowers/pristine graphene interconnected networks as efficient electrocatalysts toward hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2017, 1, 2172-2180.	4.9	35
62	An excellent soft magnetic Fe/Fe <sub>3</sub> O <sub>4</sub> -FeSiAl composite with high permeability and low core loss. <i>Results in Physics</i> , 2019, 14, 102498.	4.1	35
63	Charged drug delivery by ultrafast exponentially grown weak polyelectrolyte multilayers: amphoteric properties, ultrahigh loading capacity and pH-responsiveness. <i>Journal of Materials Chemistry</i> , 2012, 22, 9351.	6.7	34
64	Light-Controlled Simultaneous Resistive and Ferroelectricity Switching Effects of BiFeO <sub>3</sub> Film for a Flexible Multistate High-Storage Memory Device. <i>ChemElectroChem</i> , 2016, 3, 896-901.	3.4	34
65	Nonvolatile bio-memristor fabricated with natural bio-materials from spider silk. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 3957-3962.	2.2	34
66	Improved Rate and Cycling Performances of Electrodes Based on BiFeO <sub>3</sub> Nanoflakes by Compositing with Organic Pectin for Advanced Rechargeable Na-Ion Batteries. <i>ACS Applied Nano Materials</i> , 2018, 1, 1291-1299.	5.0	34
67	Effect of anodic oxidation time on resistive switching memory behavior based on amorphous TiO <sub>2</sub> thin films device. <i>Chemical Physics Letters</i> , 2018, 706, 477-482.	2.6	34
68	A larger nonvolatile bipolar resistive switching memory behaviour fabricated using eggshells. <i>Current Applied Physics</i> , 2017, 17, 235-239.	2.4	33
69	pH-Modulated memristive behavior based on an edible garlic-constructed bio-electronic device. <i>New Journal of Chemistry</i> , 2019, 43, 9634-9640.	2.8	33
70	Multistate resistive switching behaviors for neuromorphic computing in memristor. <i>Materials Today Advances</i> , 2021, 9, 100125.	5.2	33
71	Current commercial dPCR platforms: technology and market review. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 433-464.	9.0	33
72	Stimuli-Free Reversible and Controllable Loading and Release of Proteins under Physiological Conditions by Exponentially Growing Nanoporous Multilayered Structure. <i>Advanced Functional Materials</i> , 2012, 22, 1932-1939.	14.9	32

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73	Vacuum-annealing-tailored robust and flexible nanopore-structured $\text{Fe}_2\text{O}_3$ film anodes for high capacity and long life Na-ion batteries. RSC Advances, 2014, 4, 36815.	3.6	32
74	Hydrothermal Preparation and White-Light-Controlled Resistive Switching Behavior of $\text{BaWO}_4$ Nanospheres. Nano-Micro Letters, 2015, 7, 80-85.	27.0	32
75	Ag filament induced nonvolatile resistive switching memory behaviour in hexagonal $\text{MoSe}_2$ nanosheets. Journal of Colloid and Interface Science, 2017, 505, 148-153.	9.4	32
76	A sustainable resistive switching memory device based on organic keratin extracted from hair. RSC Advances, 2019, 9, 12436-12440.	3.6	32
77	Resistive switching effect of $\text{Ag}/\text{MoS}_2/\text{FTO}$ device. Functional Materials Letters, 2015, 08, 1550010.	1.2	31
78	An excellent pH-controlled resistive switching memory device based on self-colored $(\text{C}_7\text{H}_7\text{O}_4\text{N})_n$ extracted from a lichen plant. Journal of Materials Chemistry C, 2019, 7, 7593-7600.	5.5	31
79	Resistive switching memory characteristics of single $\text{MoSe}_2$ nanorods. Chemical Physics Letters, 2015, 638, 103-107.	2.6	30
80	Preparation of $\text{MoSe}_2$ nano-islands array embedded in a $\text{TiO}_2$ matrix for photo-regulated resistive switching memory. Journal of Alloys and Compounds, 2016, 664, 619-625.	5.5	30
81	Polymer-Mediated Self-Assembly of Amorphous Metal-Organic Complexes toward Fabrication of Three-Dimensional Graphene Supported CoP Nanoparticle-Embedded N-Doped Carbon as a Superior Hydrogen Evolution Catalyst. ACS Applied Energy Materials, 2019, 2, 8851-8861.	5.1	30
82	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials. ACS Applied Bio Materials, 2021, 4, 1976-1985.	4.6	30
83	Tannic Acid-Mediated <i>In Situ</i> Controlled Assembly of NiFe Alloy Nanoparticles on Pristine Graphene as a Superior Oxygen Evolution Catalyst. ACS Applied Energy Materials, 2020, 3, 3966-3977.	5.1	29
84	Self-assembling micro-sized materials to fabricate multifunctional hierarchical nanostructures on macroscale substrates. Journal of Materials Chemistry A, 2013, 1, 6416.	10.3	28
85	Necklace-like mesoporous $\text{MgO}/\text{TiO}_2$ heterojunction structures with excellent capability for water treatment. Dalton Transactions, 2014, 43, 2348-2351.	3.3	27
86	Superior resistive switching behaviors of $\text{FeWO}_4$ single-crystalline nanowires array. Chemical Physics Letters, 2014, 604, 127-130.	2.6	26
87	Biomass-Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Direct Electron-Transfer-Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151.	3.4	26
88	Two-bit memory and quantized storage phenomenon in conventional MOS structures with double-stacked Pt-NCs in an $\text{HfAlO}$ matrix. Physical Chemistry Chemical Physics, 2016, 18, 6509-6514.	2.8	26
89	Identifying the Ground-State NP Sheet through a Global Structure Search in Two-Dimensional Space and Its Promising High-Efficiency Photovoltaic Properties. , 2019, 1, 375-382.		26
90	Surface Nitridation of PdCu Nanosheets to Promote Charge Transfer and Suppress CO Poisoning toward Ethanol Electrooxidation. Advanced Materials Interfaces, 2022, 9, .	3.7	26

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91	Pristineâ€Grapheneâ€Supported Nitrogenâ€Doped Carbon Selfâ€Assembled from Glucaminiumâ€Based Ionic Liquids as Metalâ€Free Catalyst for Oxygen Evolution. <i>ChemSusChem</i> , 2019, 12, 5041-5050.	6.8	25
92	A sustainable biomemristive memory device based on natural collagen. <i>Materials Today Chemistry</i> , 2019, 13, 18-24.	3.5	25
93	Morphology evolution and photocatalytic applications of W-doped Bi <sub>2</sub> O <sub>3</sub> films prepared using unique oblique angle co-sputtering technology. <i>Ceramics International</i> , 2019, 45, 21968-21974.	4.8	24
94	From natural biomaterials to environment-friendly and sustainable nonvolatile memory device. <i>Chemical Physics</i> , 2018, 513, 7-12.	1.9	23
95	An analogue memristor made of silk fibroin polymer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14583-14588.	5.5	22
96	Ionic liquid <i>in situ</i> functionalized carbon nanotubes as metal-free catalyst for efficient electrocatalytic hydrogen evolution reaction. <i>Nanoscale</i> , 2021, 13, 4444-4450.	5.6	22
97	A novel 2D porous C <sub>3</sub> N <sub>2</sub> framework as a promising anode material with ultra-high specific capacity for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6551-6559.	10.3	22
98	Multi-factor-controlled ReRAM devices and their applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8895-8921.	5.5	22
99	Room-temperature multiferroic properties of single-crystalline FeWO <sub>4</sub> nanowires. <i>Scripta Materialia</i> , 2014, 89, 17-20.	5.2	21
100	Band gap energies for white nanosheets/yellow nanoislands/purple nanorods of CeO <sub>2</sub> . <i>RSC Advances</i> , 2016, 6, 59370-59374.	3.6	21
101	Ionic liquid functionalized carbon nanotubes: metal-free electrocatalyst for hydrogen evolution reaction. <i>RSC Advances</i> , 2016, 6, 12792-12796.	3.6	21
102	White-light-controlled resistive switching characteristics of TiO <sub>2</sub> /Cu <sub>2</sub> O composite nanorods array. <i>Chemical Physics</i> , 2015, 457, 28-31.	1.9	20
103	The redox of hydroxyl-assisted metallic filament induced resistive switching memory based on a biomaterial-constructed sustainable and environment-friendly device. <i>Materials Today Chemistry</i> , 2018, 10, 167-174.	3.5	20
104	White-light-controlled resistive switching and photovoltaic effects in TiO <sub>2</sub> /ZnO composite nanorods array at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4306-4311.	2.2	19
105	Effect of temperature on the magnetism and memristive memory behavior of MoSe <sub>2</sub> nanosheets. <i>Materials Letters</i> , 2017, 202, 13-16.	2.6	19
106	Understanding Excitonic Behavior in Light Absorption and Recombination Process. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26076-26082.	3.1	19
107	Applications of biomemristors in next generation wearable electronics. <i>Nanoscale Horizons</i> , 2022, 7, 822-848.	8.0	19
108	White-light-controlled resistance switching in TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> composite nanorods array. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	18

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109	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organic-Inorganic Heterojunction Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 5045-5052.	5.0	18
110	Investigation of multi-photoconductance state induced by light-sensitive defect in TiO <sub>x</sub> -based memristor. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	18
111	An optoelectronic resistive switching memory behavior of Ag <sup>±</sup> -SnWO <sub>4</sub> /FTO device. <i>Journal of Alloys and Compounds</i> , 2016, 681, 516-521.	5.5	17
112	Bipolar resistive switching memory behaviors of the micro-size composite particles. <i>Composite Structures</i> , 2017, 166, 177-183.	5.8	17
113	Binder and conductive additive-free NiO nanorod electrodes prepared by the sputtering method for Li-ion battery anodes with an ultra-long life cycle. <i>Journal of Solid State Chemistry</i> , 2019, 269, 132-137.	2.9	17
114	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2380-2388.	4.3	17
115	Perpendicular coercive force of thick CoFeB thin films grown on silicon substrate. <i>Materials Letters</i> , 2014, 123, 221-223.	2.6	16
116	Light regulated I <sub>on</sub> -V hysteresis loop of Ag/BiFeO <sub>3</sub> /FTO thin film. <i>Applied Surface Science</i> , 2017, 393, 325-329.	6.1	16
117	Effect of Joule heating current on phase formation and superconducting properties based on Nb <sub>3</sub> Al for applications in nuclear fusion magnet energy. <i>Journal of Alloys and Compounds</i> , 2018, 742, 130-134.	5.5	16
118	Tunneling of photon-generated carrier in the interface barrier induced resistive switching memory behaviour. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 682-687.	9.4	16
119	The pH-controlled memristive effect in a sustainable bioelectronic device prepared using lotus root. <i>Materials Today Sustainability</i> , 2020, 7-8, 100029.	4.1	16
120	Synergistic performance of nitrogen and sulfur co-doped Ti <sub>3</sub> C <sub>2</sub> TX for electrohydrogenation of N <sub>2</sub> to NH <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2021, 869, 159335.	5.5	16
121	A resistance ratio change phenomenon observed in Al doped ZnO (AZO)/Cu(In <sub>1-x</sub> Ga <sub>x</sub> )Se <sub>2</sub> /Mo resistive switching memory device. <i>Applied Surface Science</i> , 2018, 433, 535-539.	6.1	15
122	Influence of the voltage window on resistive switching memory characteristics based on g-C <sub>3</sub> N <sub>4</sub> device. <i>Ceramics International</i> , 2018, 44, 18108-18112.	4.8	15
123	Self-Powered Memory Systems. , 2020, 2, 1669-1690.		15
124	Synthesis of Palladium-Tungsten Metallene-Constructed Sandwich-Like Nanosheets as Bifunctional Catalysts for Direct Formic Acid Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 12336-12344.	5.1	15
125	Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. <i>Materials Today Advances</i> , 2021, 12, 100192.	5.2	15
126	Biomemristors-based synaptic devices for artificial intelligence applications. <i>Organic Electronics</i> , 2022, 106, 106540.	2.6	15



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127	Analog-to-digital and self-rectifying resistive switching behavior based on flower-like $\gamma$ -MnO <sub>2</sub> . Applied Surface Science, 2022, 595, 153560.	6.1	15
128	miR-191 is involved in renal dysfunction in arsenic-exposed populations by regulating inflammatory response caused by arsenic from burning arsenic-contaminated coal. Human and Experimental Toxicology, 2020, 39, 37-46.	2.2	14
129	Light-controlled resistive switching of ZnWO <sub>4</sub> nanowires array. AIP Advances, 2014, 4, .	1.3	13
130	Visible-light controlled ferroelectricity and magnetoelectric coupling in multiferroic BiCoO <sub>3</sub> nanoribbons. RSC Advances, 2014, 4, 50102-50106.	3.6	13
131	Reversible resistive switching behaviors of multiferroic single-crystalline BiCoO <sub>3</sub> microribbons. Chemical Physics Letters, 2014, 613, 100-103.	2.6	13
132	Preparation and light-controlled resistive switching memory behavior of CuCr <sub>2</sub> O <sub>4</sub> . Journal of Sol-Gel Science and Technology, 2015, 75, 664-669.	2.4	13
133	Sacrificial polymer thin-film template with tunability to construct high-density Au nanoparticle arrays and their refractive index sensing. Physical Chemistry Chemical Physics, 2013, 15, 15499.	2.8	12
134	Room-temperature ferromagnetism of single-crystalline MoS <sub>2</sub> nanowires. Micro and Nano Letters, 2014, 9, 468-470.	1.3	12
135	Photo-regulated magnetism and photoferroelectric effect in BiFeO <sub>3</sub> nanoribbons at room temperature. Scripta Materialia, 2015, 105, 26-29.	5.2	12
136	Memristive effect with non-zero-crossing current-voltage hysteresis behavior based on Ag doped Lophatherum gracile Brongn. Current Applied Physics, 2020, 20, 545-549.	2.4	12
137	White-light-controlled resistive switching effect in [BaTiO <sub>3</sub> / $\lambda^3$ -Fe <sub>2</sub> O <sub>3</sub> ]/ZnO film. Solid State Communications, 2014, 194, 16-19.	1.9	11
138	Effect of visible-light illumination on resistive switching characteristics in Ag/Ce <sub>2</sub> W <sub>3</sub> O <sub>12</sub> /FTO devices. Chemical Physics Letters, 2016, 643, 66-70.	2.6	11
139	A Bio-memristor with Overwhelming Capacitance Effect. Electronic Materials Letters, 2019, 15, 547-554.	2.2	11
140	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. Nanotechnology, 2013, 24, 045605.	2.6	10
141	High performance white-light-controlled resistance switching memory of an Ag/ $\lambda^3$ -Fe <sub>2</sub> O <sub>3</sub> /FTO thin film. RSC Advances, 2016, 6, 25028-25033.	3.6	10
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