Bai Sun

List of Publications by Year
in descending order

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192 papers	6,277 citations	46918 47 h-index	106150 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_x Modulated by Moisture. Advanced Electronic Materials, 2018, 4, 1700567.	2.6	147
2	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Currentâ€“Voltage Hysteresis Loop. Nano Letters, 2019, 19, 6461-6465.	4.5	128
3	An organic nonvolatile resistive switching memory device fabricated with natural pectin from fruit peel. Organic Electronics, 2017, 42, 181-186.	1.4	119
4	Artificial and wearable albumen protein memristor arrays with integrated memory logic gate functionality. Materials Horizons, 2019, 6, 1877-1882.	6.4	116
5	Resistive switching memory integrated with amorphous carbon-based nanogenerators for self-powered device. Nano Energy, 2019, 63, 103793.	8.2	111
6	Biomemristors as the next generation bioelectronics. Nano Energy, 2020, 75, 104938.	8.2	110
7	Synaptic devices based neuromorphic computing applications in artificial intelligence. Materials Today Physics, 2021, 18, 100393.	2.9	110
8	Enhanced resistive switching effect upon illumination in self-assembled NiWO₄nano-nests. Chemical Communications, 2014, 50, 13142-13145.	2.2	107
9	Polymer-Mediated Self-Assembly of TiO₂@Cu₂O Coreâ€“Shell Nanowire Array for Highly Efficient Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 6082-6092.	4.0	105
10	Effective removal of fluoride by porous MgO nanoplates and its adsorption mechanism. Journal of Alloys and Compounds, 2016, 675, 292-300.	2.8	103
11	Capacitive effect: An original of the resistive switching memory. Nano Energy, 2020, 68, 104386.	8.2	102
12	Fabrication of CeO2 nanoparticle-modified silk for UV protection and antibacterial applications. Journal of Colloid and Interface Science, 2014, 435, 8-14.	5.0	98
13	Negative Photoconductance Effect: An Extension Function of the TiO_xâ€Based Memristor. Advanced Science, 2021, 8, 2003765.	5.6	94
14	Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	94
15	Investigation of the behaviour of electronic resistive switching memory based on MoSe2-doped ultralong Se microwires. Applied Physics Letters, 2016, 109, .	1.5	86
16	The DNA strand assisted conductive filament mechanism for improved resistive switching memory. Journal of Materials Chemistry C, 2015, 3, 12149-12155.	2.7	82
17	Perforated Pd Nanosheets with Crystalline/Amorphous Heterostructures as a Highly Active Robust Catalyst toward Formic Acid Oxidation. Small, 2019, 15, e1904245.	5.2	81
18	Layered and Heterostructured Pd/PdWCr Sheetâ€Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. Advanced Functional Materials, 2020, 30, 2003933.	7.8	81

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19	ABO₃multiferroic perovskite materials for memristive memory and neuromorphic computing. Nanoscale Horizons, 2021, 6, 939-970.	4.1	79
20	Investigation of a submerging redox behavior in Fe2O3 solid electrolyte for resistive switching memory. Applied Physics Letters, 2019, 114, .	1.5	78
21	Photo-induced negative differential resistance in a resistive switching memory device based on BiFeO3/ZnO heterojunctions. Applied Materials Today, 2019, 14, 21-28.	2.3	76
22	Magnetic-field and white-light controlled resistive switching behaviors in Ag/[BiFeO3/Î³-Fe2O3]/FTO device. RSC Advances, 2015, 5, 13513-13518.	1.7	72
23	From dead leaves to sustainable organic resistive switching memory. Journal of Colloid and Interface Science, 2018, 513, 774-778.	5.0	72
24	Weak polyelectrolyte-based multilayers via layer-by-layer assembly: Approaches, properties, and applications. Advances in Colloid and Interface Science, 2020, 282, 102200.	7.0	72
25	Two-dimensional Blue-AsP monolayers with tunable direct band gap and ultrahigh carrier mobility show promising high-performance photovoltaic properties. Nanoscale, 2019, 11, 8260-8269.	2.8	70
26	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. Journal of Colloid and Interface Science, 2019, 537, 366-374.	5.0	68
27	CoP Nanoparticles in Situ Grown in Three-Dimensional Hierarchical Nanoporous Carbons as Superior Electrocatalysts for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 20720-20729.	4.0	67
28	Wide pH range for fluoride removal from water by MHS-MgO/MgCO3 adsorbent: Kinetic, thermodynamic and mechanism studies. Journal of Colloid and Interface Science, 2015, 446, 194-202.	5.0	62
29	Controllable Synthesis of Webâ€Footed PdCu Nanosheets and Their Electrocatalytic Applications. Small, 2022, 18, e2107623.	5.2	62
30	White-Light-Controlled Magnetic and Ferroelectric Properties in Multiferroic BiFeO₃ Square Nanosheets. Journal of Physical Chemistry C, 2014, 118, 18814-18819.	1.5	60
31	Efficient removal of fluoride by hierarchical MgO microspheres: Performance and mechanism study. Applied Surface Science, 2015, 357, 1080-1088.	3.1	60
32	A flexible nonvolatile resistive switching memory device based on ZnO film fabricated on a foldable PET substrate. Journal of Colloid and Interface Science, 2018, 520, 19-24.	5.0	59
33	Oxide-based RRAM switching mechanism: A new ion-transport-recombination model. , 2008, , .		58
34	Hydrothermal synthesis and resistive switching behaviour of WO₃/CoWO₄coreâ€“shell nanowires. CrystEngComm, 2014, 16, 9891-9895.	1.3	58
35	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. Journal of Materials Chemistry A, 2016, 4, 7352-7364.	5.2	57
36	Overwhelming coexistence of negative differential resistance effect and RRAM. Physical Chemistry Chemical Physics, 2018, 20, 20635-20640.	1.3	57

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37	A nonvolatile organic resistive switching memory based on lotus leaves. Chemical Physics, 2019, 516, 168-174.	0.9	57
38	From Memristive Materials to Neural Networks. ACS Applied Materials & Interfaces, 2020, 12, 54243-54265.	4.0	56
39	Facile one-pot surfactant-free synthesis of uniform Pd₆Co nanocrystals on 3D graphene as an efficient electrocatalyst toward formic acid oxidation. Nanoscale, 2016, 8, 1905-1909.	2.8	52
40	Effect of Cu ions assisted conductive filament on resistive switching memory behaviors in ZnFe2O4-based devices. Journal of Alloys and Compounds, 2017, 694, 464-470.	2.8	52
41	Mechanism analysis of a flexible organic memristive memory with capacitance effect and negative differential resistance state. APL Materials, 2019, 7, .	2.2	51
42	Resistive switching behaviors and memory logic functions in single MnO_x nanorod modulated by moisture. Chemical Communications, 2019, 55, 9915-9918.	2.2	51
43	Existence of Resistive Switching Memory and Negative Differential Resistance State in Self-Colored MoS₂/ZnO Heterojunction Devices. ACS Applied Electronic Materials, 2019, 1, 318-324.	2.0	51
44	Metal ion formed conductive filaments by redox process induced nonvolatile resistive switching memories in MoS 2 film. Applied Surface Science, 2017, 426, 812-816.	3.1	50
45	Nanorod Array of SnO₂ Quantum Dot Interspersed Multiphase TiO₂ Heterojunctions with Highly Photocatalytic Water Splitting and Self-Rechargeable Battery-Like Applications. ACS Applied Materials & Interfaces, 2019, 11, 2071-2081.	4.0	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. Journal of Materials Chemistry A, 2015, 3, 1961-1971.	5.2	47
47	Metal Ions Redox Induced Repeatable Nonvolatile Resistive Switching Memory Behavior in Biomaterials. ACS Applied Bio Materials, 2018, 1, 496-501.	2.3	47
48	Evolution map of the memristor: from pure capacitive state to resistive switching state. Nanoscale, 2019, 11, 17222-17229.	2.8	45
49	Development of a nanosphere adsorbent for the removal of fluoride from water. Journal of Colloid and Interface Science, 2016, 475, 17-25.	5.0	44
50	Facile one-pot synthesis of lepidocrocite (Î³-FeOOH) nanoflakes for water treatment. New Journal of Chemistry, 2013, 37, 2551.	1.4	42
51	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Selfâ€Assembled Graphene Quantum Dots for Hydrogen Evolution. ChemSusChem, 2017, 10, 1014-1021.	3.6	42
52	A resistive switching memory device with a negative differential resistance at room temperature. Applied Physics Letters, 2018, 113, .	1.5	41
53	Non-zero-crossing current-voltage hysteresis behavior induced by capacitive effects in bio-memristor. Journal of Colloid and Interface Science, 2020, 560, 565-571.	5.0	41
54	Refining the Negative Differential Resistance Effect in a TiO_x-Based Memristor. Journal of Physical Chemistry Letters, 2021, 12, 5377-5383.	2.1	41

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55	White-light-controlled ferromagnetic and ferroelectric properties of multiferroic single-crystalline BiFeO₃nanoflowers at room temperature. Journal of Materials Chemistry C, 2014, 2, 7547.	2.7	38
56	Simple sol-gel method synthesis of 3-dimension Li4Ti5O12-TiO2 nanostructures using butterfly wings as biotemplates for high rate performance lithium-ion batteries. Journal of Alloys and Compounds, 2017, 705, 58-63.	2.8	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. Journal of Materials Chemistry A, 2017, 5, 1201-1210.	5.2	38
58	Versatile memristor for memory and neuromorphic computing. Nanoscale Horizons, 2022, 7, 299-310.	4.1	38
59	Nonâ€“zero-crossing current-voltage hysteresis behavior in memristive system. Materials Today Advances, 2020, 6, 100056.	2.5	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. RSC Advances, 2013, 3, 5430.	1.7	36
61	Diethylenetriamine-mediated self-assembly of three-dimensional hierarchical nanoporous CoP nanoflowers/pristine graphene interconnected networks as efficient electrocatalysts toward hydrogen evolution. Sustainable Energy and Fuels, 2017, 1, 2172-2180.	2.5	35
62	An excellent soft magnetic Fe/Fe3O4-FeSiAl composite with high permeability and low core loss. Results in Physics, 2019, 14, 102498.	2.0	35
63	Charged drug delivery by ultrafast exponentially grown weak polyelectrolyte multilayers: amphoteric properties, ultrahigh loading capacity and pH-responsiveness. Journal of Materials Chemistry, 2012, 22, 9351.	6.7	34
64	Lightâ€Controlled Simultaneous Resistive and Ferroelectricity Switching Effects of BiFeO₃ Film for a Flexible Multistate Highâ€Storage Memory Device. ChemElectroChem, 2016, 3, 896-901.	1.7	34
65	Nonvolatile bio-memristor fabricated with natural bio-materials from spider silk. Journal of Materials Science: Materials in Electronics, 2016, 27, 3957-3962.	1.1	34
66	Improved Rate and Cycling Performances of Electrodes Based on BiFeO₃ Nanoflakes by Compositing with Organic Pectin for Advanced Rechargeable Na-Ion Batteries. ACS Applied Nano Materials, 2018, 1, 1291-1299.	2.4	34
67	Effect of anodic oxidation time on resistive switching memory behavior based on amorphous TiO2 thin films device. Chemical Physics Letters, 2018, 706, 477-482.	1.2	34
68	A larger nonvolatile bipolar resistive switching memory behaviour fabricated using eggshells. Current Applied Physics, 2017, 17, 235-239.	1.1	33
69	pH-Modulated memristive behavior based on an edible garlic-constructed bio-electronic device. New Journal of Chemistry, 2019, 43, 9634-9640.	1.4	33
70	Multistate resistive switching behaviors for neuromorphic computing in memristor. Materials Today Advances, 2021, 9, 100125.	2.5	33
71	Current commercial dPCR platforms: technology and market review. Critical Reviews in Biotechnology, 2023, 43, 433-464.	5.1	33
72	Stimuliâ€Free Reversible and Controllable Loading and Release of Proteins under Physiological Conditions by Exponentially Growing Nanoporous Multilayered Structure. Advanced Functional Materials, 2012, 22, 1932-1939.	7.8	32

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73	Vacuum-annealing-tailored robust and flexible nanopore-structured Î³-Fe₂O₃film anodes for high capacity and long life Na-ion batteries. RSC Advances, 2014, 4, 36815.	1.7	32
74	Hydrothermal Preparation and White-Light-Controlled Resistive Switching Behavior of BaWO4 Nanospheres. Nano-Micro Letters, 2015, 7, 80-85.	14.4	32
75	Ag filament induced nonvolatile resistive switching memory behaviour in hexagonal MoSe2 nanosheets. Journal of Colloid and Interface Science, 2017, 505, 148-153.	5.0	32
76	A sustainable resistive switching memory device based on organic keratin extracted from hair. RSC Advances, 2019, 9, 12436-12440.	1.7	32
77	Resistive switching effect of Ag/MoS₂/FTO device. Functional Materials Letters, 2015, 08, 1550010.	0.7	31
78	An excellent pH-controlled resistive switching memory device based on self-colored (C₇H₇O₄N)_n extracted from a lichen plant. Journal of Materials Chemistry C, 2019, 7, 7593-7600.	2.7	31
79	Resistive switching memory characteristics of single MoSe2 nanorods. Chemical Physics Letters, 2015, 638, 103-107.	1.2	30
80	Preparation of MoSe2 nano-islands array embedded in a TiO2 matrix for photo-regulated resistive switching memory. Journal of Alloys and Compounds, 2016, 664, 619-625.	2.8	30
81	Polymer-Mediated Self-Assembly of Amorphous Metalâ€“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.	2.5	30
82	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials. ACS Applied Bio Materials, 2021, 4, 1976-1985.	2.3	30
83	Tannic Acid-Mediated In Situ Controlled Assembly of NiFe Alloy Nanoparticles on Pristine Graphene as a Superior Oxygen Evolution Catalyst. ACS Applied Energy Materials, 2020, 3, 3966-3977.	2.5	29
84	Self-assembling microsized materials to fabricate multifunctional hierarchical nanostructures on macroscale substrates. Journal of Materials Chemistry A, 2013, 1, 6416.	5.2	28
85	Necklace-like mesoporous MgO/TiO₂heterojunction structures with excellent capability for water treatment. Dalton Transactions, 2014, 43, 2348-2351.	1.6	27
86	Superior resistive switching behaviors of FeWO4 single-crystalline nanowires array. Chemical Physics Letters, 2014, 604, 127-130.	1.2	26
87	Biomassâ€Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Directâ€Electronâ€Transferâ€Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151.	1.7	26
88	Two-bit memory and quantized storage phenomenon in conventional MOS structures with double-stacked Pt-NCs in an HfAlO matrix. Physical Chemistry Chemical Physics, 2016, 18, 6509-6514.	1.3	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, .	1.9	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. ChemSusChem, 2019, 12, 5041-5050.	3.6	25
92	A sustainable biomemristive memory device based on natural collagen. Materials Today Chemistry, 2019, 13, 18-24.	1.7	25
93	Morphology evolution and photocatalytic applications of W-doped Bi2O3 films prepared using unique oblique angle co-sputtering technology. Ceramics International, 2019, 45, 21968-21974.	2.3	24
94	From natural biomaterials to environment-friendly and sustainable nonvolatile memory device. Chemical Physics, 2018, 513, 7-12.	0.9	23
95	An analogue memristor made of silk fibroin polymer. Journal of Materials Chemistry C, 2021, 9, 14583-14588.	2.7	22
96	Ionic liquid in situ functionalized carbon nanotubes as metal-free catalyst for efficient electrocatalytic hydrogen evolution reaction. Nanoscale, 2021, 13, 4444-4450.	2.8	22
97	A novel 2D porous C₃N₂ framework as a promising anode material with ultra-high specific capacity for lithium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 6551-6559.	5.2	22
98	Multi-factor-controlled ReRAM devices and their applications. Journal of Materials Chemistry C, 2022, 10, 8895-8921.	2.7	22
99	Room-temperature multiferroic properties of single-crystalline FeWO4 nanowires. Scripta Materialia, 2014, 89, 17-20.	2.6	21
100	Band gap energies for white nanosheets/yellow nanoislands/purple nanorods of CeO₂. RSC Advances, 2016, 6, 59370-59374.	1.7	21
101	Ionic liquid functionalized carbon nanotubes: metal-free electrocatalyst for hydrogen evolution reaction. RSC Advances, 2016, 6, 12792-12796.	1.7	21
102	White-light-controlled resistive switching chearacteristics of TiO 2 /Cu 2 O composite nanorods array. Chemical Physics, 2015, 457, 28-31.	0.9	20
103	The redox of hydroxyl-assisted metallic filament induced resistive switching memory based on a biomaterial-constructed sustainable and environment-friendly device. Materials Today Chemistry, 2018, 10, 167-174.	1.7	20
104	White-light-controlled resistive switching and photovoltaic effects in TiO2/ZnO composite nanorods array at room temperature. Journal of Materials Science: Materials in Electronics, 2014, 25, 4306-4311.	1.1	19
105	Effect of temperature on the magnetism and memristive memory behavior of MoSe 2 nanosheets. Materials Letters, 2017, 202, 13-16.	1.3	19
106	Understanding Excitonic Behavior in Light Absorption and Recombination Process. Journal of Physical Chemistry C, 2020, 124, 26076-26082.	1.5	19
107	Applications of biomemristors in next generation wearable electronics. Nanoscale Horizons, 2022, 7, 822-848.	4.1	19
108	White-light-controlled resistance switching in TiO2/Î±-Fe2O3 composite nanorods array. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	18

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109	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organicâ€“Inorganic Heterojunction Devices. ACS Applied Nano Materials, 2020, 3, 5045-5052.	2.4	18
110	Investigation of multi-photoconductance state induced by light-sensitive defect in TiOx-based memristor. Applied Physics Letters, 2022, 120, .	1.5	18
111	An optoelectronic resistive switching memory behavior of Ag/Î±-SnWO4/FTO device. Journal of Alloys and Compounds, 2016, 681, 516-521.	2.8	17
112	Bipolar resistive switching memory behaviors of the micro-size composite particles. Composite Structures, 2017, 166, 177-183.	3.1	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. Journal of Solid State Chemistry, 2019, 269, 132-137.	1.4	17
114	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. ACS Applied Electronic Materials, 2021, 3, 2380-2388.	2.0	17
115	Perpendicular coercive force of thick CoFeB thin films grown on silicon substrate. Materials Letters, 2014, 123, 221-223.	1.3	16
116	Light regulated Iâ€“V hysteresis loop of Ag/BiFeO3/FTO thin film. Applied Surface Science, 2017, 393, 325-329.	3.1	16
117	Effect of Joule heating current on phase formation and superconducting properties based on Nb3Al for applications in nuclear fusion magnet energy. Journal of Alloys and Compounds, 2018, 742, 130-134.	2.8	16
118	Tunneling of photon-generated carrier in the interface barrier induced resistive switching memory behaviour. Journal of Colloid and Interface Science, 2019, 553, 682-687.	5.0	16
119	The pH-controlled memristive effect in a sustainable bioelectronic device prepared using lotus root. Materials Today Sustainability, 2020, 7-8, 100029.	1.9	16
120	Synergistic performance of nitrogen and sulfur co-doped Ti3C2TX for electrohydrogenation of N2 to NH3. Journal of Alloys and Compounds, 2021, 869, 159335.	2.8	16
121	A resistance ratio change phenomenon observed in Al doped ZnO (AZO)/Cu(In 1-x Ga x)Se 2 /Mo resistive switching memory device. Applied Surface Science, 2018, 433, 535-539.	3.1	15
122	Influence of the voltage window on resistive switching memory characteristics based on g-C3N4 device. Ceramics International, 2018, 44, 18108-18112.	2.3	15
123	Self-Powered Memory Systems. , 2020, 2, 1669-1690.		15
124	Synthesis of Palladiumâ€“Tungsten Metallene-Constructed Sandwich-Like Nanosheets as Bifunctional Catalysts for Direct Formic Acid Fuel Cells. ACS Applied Energy Materials, 2021, 4, 12336-12344.	2.5	15
125	Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. Materials Today Advances, 2021, 12, 100192.	2.5	15
126	Biomemristors-based synaptic devices for artificial intelligence applications. Organic Electronics, 2022, 106, 106540.	1.4	15

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127	Analog-to-digital and self-rectifying resistive switching behavior based on flower-like Î´-MnO2. Applied Surface Science, 2022, 595, 153560.	3.1	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.	1.1	14
129	Light-controlled resistive switching of ZnWO4 nanowires array. AIP Advances, 2014, 4, .	0.6	13
130	Visible-light controlled ferroelectricity and magnetoelectric coupling in multiferroic BiCoO₃nanoribbons. RSC Advances, 2014, 4, 50102-50106.	1.7	13
131	Reversible resistive switching behaviors of multiferroic single-crystalline BiCoO 3 microribbons. Chemical Physics Letters, 2014, 613, 100-103.	1.2	13
132	Preparation and light-controlled resistive switching memory behavior of CuCr2O4. Journal of Sol-Gel Science and Technology, 2015, 75, 664-669.	1.1	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.	1.3	12
134	Roomâ€temperature ferromagnetism of singleâ€crystalline MoS ₂ nanowires. Micro and Nano Letters, 2014, 9, 468-470.	0.6	12
135	Photo-regulated magnetism and photoferroelectric effect in BiFeO3 nanoribbons at room temperature. Scripta Materialia, 2015, 105, 26-29.	2.6	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.	1.1	12
137	White-light-controlled resistive switching effect in [BaTiO3/Î³-Fe2O3]/ZnO film. Solid State Communications, 2014, 194, 16-19.	0.9	11
138	Effect of visible-light illumination on resistive switching characteristics in Ag/Ce2W3O12/FTO devices. Chemical Physics Letters, 2016, 643, 66-70.	1.2	11
139	A Bio-memristor with Overwhelming Capacitance Effect. Electronic Materials Letters, 2019, 15, 547-554.	1.0	11
140	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. Nanotechnology, 2013, 24, 045605.	1.3	10
141	High performance white-light-controlled resistance switching memory of an Ag/Î±-Fe₂O₃/FTO thin film. RSC Advances, 2016, 6, 25028-25033.	1.7	10
142	Origin of a continuously enlarge memristor effect in Nb inserted into MgB 2 multilayer constructed heterojunctions. Vacuum, 2018, 151, 261-265.	1.6	10
143	An excellent resistive switching memory behaviour based on assembled MoSe2 nanosphere arrays. Journal of Solid State Chemistry, 2019, 279, 120975.	1.4	10
144	Ultrahigh-pressure induced decomposition of silicon disulfide into silicon-sulfur compounds with high coordination numbers. Physical Review B, 2019, 99, .	1.1	10

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145	Resistive switching of multiferroic BiCoO₃ nanoflowers. Functional Materials Letters, 2015, 08, 1550001.	0.7	9
146	Controlled synthesis and room-temperature ferromagnetism of CaWO4 nanostructures. Journal of Alloys and Compounds, 2015, 653, 95-99.	2.8	9
147	Modification of Bi₂WO₆ composites with rGO for enhanced visible light driven NO removal. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 121-127.	0.8	9
148	Environmental factors controlled resistive switching memory behavior based on BiFeO3/Cu2ZnSnSe4 heterojunction. Results in Physics, 2019, 13, 102308.	2.0	9
149	A high-efficiency electrocatalyst for hydrogen evolution based on tree-like amorphous MoS2 nanostructures prepared by glancing angle deposition. Journal of Solid State Chemistry, 2020, 286, 121255.	1.4	9
150	Ubiquitous clean and sustainable energy-driven self-rechargeable batteries realized by and used in organic electronics. Journal of Materials Chemistry C, 2022, 10, 388-412.	2.7	9
151	Magnetic Properties of Ultrathin $gamma hbox{-}hbox{Fe}_{2}hbox{O}_{3}$ Films Grown on Silicon Substrate. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	8
152	A light-modified ferroelectric resistive switching behavior in Ag/BaMoO 4 /FTO device at ambient temperature. Journal of Solid State Chemistry, 2014, 220, 32-36.	1.4	8
153	Unique Coâ€Catalytic Behavior of Protic Ionic Liquids as Multifunctional Electrolytes for Water Splitting. ChemElectroChem, 2016, 3, 204-208.	1.7	8
154	ZnO nanowire arrays with in situ sequentially self-assembled vertically oriented CdS nanosheets as superior photoanodes for photoelectrochemical water splitting. Sustainable Energy and Fuels, 2022, 6, 3240-3248.	2.5	8
155	Soft Biomaterials Based Flexible Artificial Synapse for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	8
156	Silver-insertion induced improvements in dielectric characteristics of the Hf-based film. Journal of Alloys and Compounds, 2013, 575, 370-374.	2.8	7
157	Resistive switching memory of single BiMnO3+Î´ nanorods. Journal of Materials Science: Materials in Electronics, 2016, 27, 512-516.	1.1	7
158	Multi-stage switching phenomenon in ultra-thin Ag films embedded into SrCoO3 multilayer films constructed resistive switching memory devices. Functional Materials Letters, 2018, 11, 1850038.	0.7	7
159	Mechanism analysis of switching direction transformation in an Er2O3 based RRAM device. Current Applied Physics, 2019, 19, 1421-1426.	1.1	7
160	The pressure-induced chemical structures and properties trend for compressed iron-boride compounds. Journal of Physics and Chemistry of Solids, 2019, 127, 238-244.	1.9	7
161	2D auxetic material with intrinsic ferromagnetism: a copper halide (CuCl₂) monolayer. Physical Chemistry Chemical Physics, 2021, 23, 22078-22085.	1.3	7
162	Mechanism and Application of Capacitive-Coupled Memristive Behavior Based on a Biomaterial Developed Memristive Device. ACS Applied Electronic Materials, 2021, 3, 5537-5547.	2.0	7

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163	Photo-electron double regulated resistive switching memory behaviors of Ag/CuWO4/FTO device. Solid State Communications, 2015, 223, 1-5.	0.9	6
164	Ion reaction tunable ON/OFF ratio of vertically oriented Zn-Al layered-double-hydroxide nanosheets based memristor. Materials Today Communications, 2019, 20, 100573.	0.9	6
165	Effect of crystalline state on conductive filaments forming process in resistive switching memory devices. Materials Today Communications, 2019, 20, 100540.	0.9	6
166	Pressure induced structural phase of lithium disulfide with a close to intermediate product character of lithium-sulfur battery. Journal of Alloys and Compounds, 2019, 778, 588-592.	2.8	6
167	Three-Dimensional Ni Foam-Supported CoO Nanoparticles/N-Doped Carbon Multilayer Nanocomposite Electrode for Oxygen Evolution. ACS Applied Nano Materials, 2020, 3, 11416-11425.	2.4	6
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