

# Bai Sun

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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

184  
papers

4,085  
citations

35  
h-index

51  
g-index

200  
ext. papers

5,143  
ext. citations

5.3  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
184	Ubiquitous clean and sustainable energy-driven self-rechargeable batteries realized by and used in organic electronics. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 388-412	7.1	1
183	Versatile memristor for memory and neuromorphic computing.. <i>Nanoscale Horizons</i> , <b>2022</b> ,	10.8	6
182	Controllable Synthesis of Web-Footed PdCu Nanosheets and Their Electrocatalytic Applications.. <i>Small</i> , <b>2022</b> , e2107623	11	4
181	Current commercial dPCR platforms: technology and market review.. <i>Critical Reviews in Biotechnology</i> , <b>2022</b> , 1-32	9.4	2
180	Biomemristors-based synaptic devices for artificial intelligence applications. <i>Organic Electronics</i> , <b>2022</b> , 106, 106540	3.5	2
179	Analog-to-digital and self-rectifying resistive switching behavior based on flower-like $\text{MnO}_2$ . <i>Applied Surface Science</i> , <b>2022</b> , 595, 153560	6.7	2
178	Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. <i>Materials Today Advances</i> , <b>2021</b> , 12, 100192	7.4	8
177	Enhanced photochemical properties of S-doped ZnO half-arc mesoporous superstructured nanowires. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 409, 113135	4.7	2
176	Multistate resistive switching behaviors for neuromorphic computing in memristor. <i>Materials Today Advances</i> , <b>2021</b> , 9, 100125	7.4	13
175	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 2380-2388	4	6
174	Synaptic devices based neuromorphic computing applications in artificial intelligence. <i>Materials Today Physics</i> , <b>2021</b> , 18, 100393	8	31
173	Negative Photoconductance Effect: An Extension Function of the TiO <sub>x</sub> -Based Memristor. <i>Advanced Science</i> , <b>2021</b> , 8, 2003765	13.6	30
172	Refining the Negative Differential Resistance Effect in a TiO-Based Memristor. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5377-5383	6.4	16
171	2D auxetic material with intrinsic ferromagnetism: a copper halide (CuCl) monolayer. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 22078-22085	3.6	0
170	Research progress of neuromorphic computation based on memcapacitors. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2021</b> , 0-0	0.6	2
169	ABO multiferroic perovskite materials for memristive memory and neuromorphic computing. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 939-970	10.8	15
168	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 1976-1985	4.1	17

167	Electrocatalytic Hydrolysis-Modulated Multistate Resistive Switching Behaviors in Memristors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000655	1.6	4
166	Leukocytosis induced by tigecycline in two patients with severe acute pancreatitis. <i>British Journal of Biomedical Science</i> , <b>2021</b> , 78, 225-228	1.6	0
165	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> , <b>2021</b> , 869, 159335	5.7	10
164	Design and modulation of two-dimensional Dirac materials in beryllium/boron-based binary monolayers. <i>Computational Materials Science</i> , <b>2021</b> , 199, 110727	3.2	2
163	VETAM-M: A General Model for Voltage-Controlled Memcapacitive-Coupled Memristors. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	0
162	Ionic liquid functionalized carbon nanotubes as metal-free catalyst for efficient electrocatalytic hydrogen evolution reaction. <i>Nanoscale</i> , <b>2021</b> , 13, 4444-4450	7.7	6
161	Mechanism and Application of Capacitive-Coupled Memristive Behavior Based on a Biomaterial Developed Memristive Device. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 5537-5547	4	0
160	Three-Dimensional Ni Foam-Supported CoO Nanoparticles/N-Doped Carbon Multilayer Nanocomposite Electrode for Oxygen Evolution. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11416-11425	5.6	5
159	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organic/Inorganic Heterojunction Devices. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 5045-5052	5.6	11
158	Biomemristors as the next generation bioelectronics. <i>Nano Energy</i> , <b>2020</b> , 75, 104938	17.1	61
157	Weak polyelectrolyte-based multilayers via layer-by-layer assembly: Approaches, properties, and applications. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 282, 102200	14.3	32
156	Memristive effect with non-zero-crossing current-voltage hysteresis behavior based on Ag doped <i>Lophatherum gracile</i> Brongn. <i>Current Applied Physics</i> , <b>2020</b> , 20, 545-549	2.6	5
155	A high-efficiency electrocatalyst for hydrogen evolution based on tree-like amorphous MoS <sub>2</sub> nanostructures prepared by glancing angle deposition. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 286, 121255	3.3	7
154	Non-zero-crossing current-voltage hysteresis behavior in memristive system. <i>Materials Today Advances</i> , <b>2020</b> , 6, 100056	7.4	18
153	Tannic Acid-Mediated In Situ Controlled Assembly of NiFe Alloy Nanoparticles on Pristine Graphene as a Superior Oxygen Evolution Catalyst. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3966-3977	6.1	11
152	miR-191 is involved in renal dysfunction in arsenic-exposed populations by regulating inflammatory response caused by arsenic from burning arsenic-contaminated coal. <i>Human and Experimental Toxicology</i> , <b>2020</b> , 39, 37-46	3.4	7
151	Non-zero-crossing current-voltage hysteresis behavior induced by capacitive effects in bio-memristor. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 560, 565-571	9.3	17
150	Surface tuning of the photoelectrochemical properties of oblique angle co-sputtered Zn <sub>x</sub> FeyO films by Fe concentration. <i>Ceramics International</i> , <b>2020</b> , 46, 8884-8890	5.1	1

149	Capacitive effect: An original of the resistive switching memory. <i>Nano Energy</i> , <b>2020</b> , 68, 104386	17.1	66
148	The pH-controlled memristive effect in a sustainable bioelectronic device prepared using lotus root. <i>Materials Today Sustainability</i> , <b>2020</b> , 7-8, 100029	5	7
147	Self-Powered Memory Systems <b>2020</b> , 2, 1669-1690		10
146	From Memristive Materials to Neural Networks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54243-54265	5.3	21
145	Understanding Excitonic Behavior in Light Absorption and Recombination Process. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 26076-26082	3.8	6
144	Layered and Heterostructured Pd/PdWCr Sheet-Assembled Nanoflowers as Highly Active and Stable Electrocatalysts for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003933	15.6	30
143	Pristine-Graphene-Supported Nitrogen-Doped Carbon Self-Assembled from Glucaminium-Based Ionic Liquids as Metal-Free Catalyst for Oxygen Evolution. <i>ChemSusChem</i> , <b>2019</b> , 12, 5041-5050	8.3	14
142	Mechanism analysis of switching direction transformation in an Er <sub>2</sub> O <sub>3</sub> based RRAM device. <i>Current Applied Physics</i> , <b>2019</b> , 19, 1421-1426	2.6	5
141	Evolution map of the memristor: from pure capacitive state to resistive switching state. <i>Nanoscale</i> , <b>2019</b> , 11, 17222-17229	7.7	32
140	An excellent resistive switching memory behaviour based on assembled MoSe <sub>2</sub> nanosphere arrays. <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 279, 120975	3.3	6
139	Environmental factors controlled resistive switching memory behavior based on BiFeO <sub>3</sub> /Cu <sub>2</sub> ZnSnSe <sub>4</sub> heterojunction. <i>Results in Physics</i> , <b>2019</b> , 13, 102308	3.7	6
138	Tunneling of photon-generated carrier in the interface barrier induced resistive switching memory behaviour. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 553, 682-687	9.3	13
137	pH-Modulated memristive behavior based on an edible garlic-constructed bio-electronic device. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 9634-9640	3.6	18
136	Artificial and wearable albumen protein memristor arrays with integrated memory logic gate functionality. <i>Materials Horizons</i> , <b>2019</b> , 6, 1877-1882	14.4	81
135	Effect of crystalline state on conductive filaments forming process in resistive switching memory devices. <i>Materials Today Communications</i> , <b>2019</b> , 20, 100540	2.5	2
134	Resistive switching memory integrated with amorphous carbon-based nanogenerators for self-powered device. <i>Nano Energy</i> , <b>2019</b> , 63, 103793	17.1	77
133	A Bio-memristor with Overwhelming Capacitance Effect. <i>Electronic Materials Letters</i> , <b>2019</b> , 15, 547-554	2.9	7
132	An excellent pH-controlled resistive switching memory device based on self-colored (C <sub>7</sub> H <sub>7</sub> O <sub>4</sub> N) <sub>n</sub> extracted from a lichen plant. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7593-7600	7.1	26

131	Ultra-high-pressure induced decomposition of silicon disulfide into silicon-sulfur compounds with high coordination numbers. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	7
130	A sustainable biomemristive memory device based on natural collagen. <i>Materials Today Chemistry</i> , <b>2019</b> , 13, 18-24	6.2	16
129	A sustainable resistive switching memory device based on organic keratin extracted from hair.. <i>RSC Advances</i> , <b>2019</b> , 9, 12436-12440	3.7	17
128	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> , <b>2019</b> , 114, 163506	3.4	60
127	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> , <b>2019</b> , 1, 318-324	4	34
126	Two-dimensional Blue-AsP monolayers with tunable direct band gap and ultrahigh carrier mobility show promising high-performance photovoltaic properties. <i>Nanoscale</i> , <b>2019</b> , 11, 8260-8269	7.7	38
125	Mechanism analysis of a flexible organic memristive memory with capacitance effect and negative differential resistance state. <i>APL Materials</i> , <b>2019</b> , 7, 081117	5.7	23
124	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Current-Voltage Hysteresis Loop. <i>Nano Letters</i> , <b>2019</b> , 19, 6461-6465	11.5	76
123	Identifying the Ground-State NP Sheet through a Global Structure Search in Two-Dimensional Space and Its Promising High-Efficiency Photovoltaic Properties <b>2019</b> , 1, 375-382		20
122	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> , <b>2019</b> , 14, 102498	3.7	13
121	Resistive switching behaviors and memory logic functions in single MnO nanorod modulated by moisture. <i>Chemical Communications</i> , <b>2019</b> , 55, 9915-9918	5.8	35
120	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> , <b>2019</b> , 45, 21968-21974	5.1	14
119	Ion reaction tunable ON/OFF ratio of vertically oriented Zn-Al layered-double-hydroxide nanosheets based memristor. <i>Materials Today Communications</i> , <b>2019</b> , 20, 100573	2.5	3
118	Perforated Pd Nanosheets with Crystalline/Amorphous Heterostructures as a Highly Active Robust Catalyst toward Formic Acid Oxidation. <i>Small</i> , <b>2019</b> , 15, e1904245	11	49
117	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. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8851-8861	6.1	16
116	A nonvolatile organic resistive switching memory based on lotus leaves. <i>Chemical Physics</i> , <b>2019</b> , 516, 168-174	2.3	32
115	The pressure-induced chemical structures and properties trend for compressed iron-boride compounds. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 127, 238-244	3.9	6
114	Nanorod Array of SnO Quantum Dot Interspersed Multiphase TiO Heterojunctions with Highly Photocatalytic Water Splitting and Self-Rechargeable Battery-Like Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2071-2081	9.5	35

113	Twisted palladium-copper nanochains toward efficient electrocatalytic oxidation of formic acid. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 537, 366-374	9.3	55
112	Pressure induced structural phase of lithium disulfide with a close to intermediate product character of lithium-sulfur battery. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 778, 588-592	5.7	5
111	Photo-induced negative differential resistance in a resistive switching memory device based on BiFeO <sub>3</sub> /ZnO heterojunctions. <i>Applied Materials Today</i> , <b>2019</b> , 14, 21-28	6.6	54
110	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> , <b>2019</b> , 269, 132-137	3.3	14
109	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> , <b>2018</b> , 520, 19-24	9.3	41
108	Origin of a continuously enlarge memristor effect in Nb inserted into MgB <sub>2</sub> multilayer constructed heterojunctions. <i>Vacuum</i> , <b>2018</b> , 151, 261-265	3.7	7
107	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> , <b>2018</b> , 742, 130-134	5.7	13
106	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> , <b>2018</b> , 1, 1291-1299	5.6	27
105	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> , <b>2018</b> , 4, 1700567	6.4	107
104	Multi-stage switching phenomenon in ultra-thin Ag films embedded into SrCoO <sub>3</sub> multilayer films constructed resistive switching memory devices. <i>Functional Materials Letters</i> , <b>2018</b> , 11, 1850038	1.2	6
103	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> , <b>2018</b> , 433, 535-539	6.7	11
102	A resistive switching memory device with a negative differential resistance at room temperature. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 053502	3.4	28
101	Overwhelming coexistence of negative differential resistance effect and RRAM. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20635-20640	3.6	36
100	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> , <b>2018</b> , 44, 18108-18112	5.1	10
99	Metal Ions Redox Induced Repeatable Nonvolatile Resistive Switching Memory Behavior in Biomaterials.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 496-501	4.1	30
98	A persistently increasing resistance ratio and repeatable non-volatile memory in AZO/CZTSe/FTO resistive switching devices. <i>Functional Materials Letters</i> , <b>2018</b> , 11, 1850023	1.2	2
97	Photo-Induced Multiple-State Memory Behaviour in Non-Volatile Bipolar Resistive-Switching Devices. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 2650-2656	1.3	2
96	Tunneling of carrier at the interface barrier induced nonvolatile resistive switching memory behaviors. <i>Materials Today Communications</i> , <b>2018</b> , 16, 164-168	2.5	5

95	Effect of Electrode Materials on Nonvolatile Resistive Switching Memory Behaviors of Metal/In <sub>2</sub> S <sub>3</sub> /Mo/Glass Devices. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 5417-5421	1.9	4
94	From dead leaves to sustainable organic resistive switching memory. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 513, 774-778	9.3	42
93	The interface superconductivity of Bi <sub>2</sub> Se <sub>3</sub> /FeSe heterostructure. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850355	1.1	2
92	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> , <b>2018</b> , 10, 167-174	6.2	12
91	From natural biomaterials to environment-friendly and sustainable nonvolatile memory device. <i>Chemical Physics</i> , <b>2018</b> , 513, 7-12	2.3	11
90	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> , <b>2018</b> , 706, 477-482	2.5	27
89	Preparation of Sm <sub>1-x</sub> Ca <sub>x</sub> BiO <sub>3</sub> buffer layers for coated conductor by polymer-assisted chemical solution deposition. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 3360-3363	5.7	3
88	Bipolar resistive switching memory behaviors of the micro-size composite particles. <i>Composite Structures</i> , <b>2017</b> , 166, 177-183	5.3	16
87	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> , <b>2017</b> , 705, 58-63	5.7	33
86	Modification of Bi <sub>2</sub> WO <sub>6</sub> composites with rGO for enhanced visible light driven NO removal. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2017</b> , 12, 121-127	1.3	6
85	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> , <b>2017</b> , 5, 1201-1210	13	23
84	Effect of temperature on the magnetism and memristive memory behavior of MoSe <sub>2</sub> nanosheets. <i>Materials Letters</i> , <b>2017</b> , 202, 13-16	3.3	14
83	Ag filament induced nonvolatile resistive switching memory behaviour in hexagonal MoSe nanosheets. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 505, 148-153	9.3	23
82	An organic nonvolatile resistive switching memory device fabricated with natural pectin from fruit peel. <i>Organic Electronics</i> , <b>2017</b> , 42, 181-186	3.5	81
81	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Self-Assembled Graphene Quantum Dots for Hydrogen Evolution. <i>ChemSusChem</i> , <b>2017</b> , 10, 1014-1021	8.3	38
80	Metal ion formed conductive filaments by redox process induced nonvolatile resistive switching memories in MoS <sub>2</sub> film. <i>Applied Surface Science</i> , <b>2017</b> , 426, 812-816	6.7	33
79	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> , <b>2017</b> , 1, 2172-2180	5.8	29
78	Light regulated $\square$ hysteresis loop of Ag/BiFeO <sub>3</sub> /FTO thin film. <i>Applied Surface Science</i> , <b>2017</b> , 393, 325-329	13	

77	A larger nonvolatile bipolar resistive switching memory behaviour fabricated using eggshells. <i>Current Applied Physics</i> , <b>2017</b> , 17, 235-239	2.6	28
76	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> , <b>2017</b> , 694, 464-470	5.7	43
75	Resistive switching memory of single BiMnO <sub>3</sub> nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 512-516	2.1	6
74	Unique Co-Catalytic Behavior of Protic Ionic Liquids as Multifunctional Electrolytes for Water Splitting. <i>ChemElectroChem</i> , <b>2016</b> , 3, 204-208	4.3	5
73	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> , <b>2016</b> , 3, 896-901	4.3	32
72	Band gap energies for white nanosheets/yellow nanoislands/purple nanorods of CeO <sub>2</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 59370-59374	3.7	16
71	Light enhanced resistive switching in BaTiO <sub>3</sub> /CoFeB/BaTiO <sub>3</sub> structure. <i>Functional Materials Letters</i> , <b>2016</b> , 09, 1650052	1.2	3
70	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. <i>Chemical Physics Letters</i> , <b>2016</b> , 643, 66-70	2.5	9
69	Effective removal of fluoride by porous MgO nanoplates and its adsorption mechanism. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 675, 292-300	5.7	73
68	Photoelectricity properties of BaTiO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> composite granular film. <i>Materials Technology</i> , <b>2016</b> , 31, 48-52	2.1	1
67	Preparation of MoSe <sub>2</sub> nano-islands array embedded in a TiO <sub>2</sub> matrix for photo-regulated resistive switching memory. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 664, 619-625	5.7	24
66	Ionic liquid functionalized carbon nanotubes: metal-free electrocatalyst for hydrogen evolution reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 12792-12796	3.7	15
65	Two-bit memory and quantized storage phenomenon in conventional MOS structures with double-stacked Pt-NCs in an HfAlO matrix. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 6509-14	3.6	23
64	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> , <b>2016</b> , 8, 6082-92	9.5	92
63	High performance white-light-controlled resistance switching memory of an Ag/Fe <sub>2</sub> O <sub>3</sub> /FTO thin film. <i>RSC Advances</i> , <b>2016</b> , 6, 25028-25033	3.7	5
62	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> , <b>2016</b> , 8, 1905-9	7.7	46
61	Nonvolatile bio-memristor fabricated with natural bio-materials from spider silk. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 3957-3962	2.1	24
60	Light-modulated resistive switching memory behavior in ZnO/BaTiO <sub>3</sub> /ZnO multilayer. <i>Modern Physics Letters B</i> , <b>2016</b> , 30, 1650141	1.6	3



59	Investigation of the behaviour of electronic resistive switching memory based on MoSe <sub>2</sub> -doped ultralong Se microwires. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 143904	3.4	67
58	An optoelectronic resistive switching memory behavior of Ag/Er <sub>2</sub> WO <sub>4</sub> /FTO device. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 516-521	5.7	12
57	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> , <b>2016</b> , 4, 7352-7364	13	51
56	Biomass-Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Direct-Electron-Transfer-Based Glucose Sensing. <i>ChemElectroChem</i> , <b>2016</b> , 3, 144-151	4.3	18
55	Development of a nanosphere adsorbent for the removal of fluoride from water. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 475, 17-25	9.3	34
54	CoP Nanoparticles in Situ Grown in Three-Dimensional Hierarchical Nanoporous Carbons as Superior Electrocatalysts for Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20720-20725	9.5	58
53	Resistive switching effect of Ag/MoS <sub>2</sub> /FTO device. <i>Functional Materials Letters</i> , <b>2015</b> , 08, 1550010	1.2	22
52	Controlled synthesis and room-temperature ferromagnetism of CaWO <sub>4</sub> nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 653, 95-99	5.7	8
51	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> , <b>2015</b> , 3, 1961-1971	13	42
50	Efficient removal of fluoride by hierarchical MgO microspheres: Performance and mechanism study. <i>Applied Surface Science</i> , <b>2015</b> , 357, 1080-1088	6.7	42
49	Photo-electron double regulated resistive switching memory behaviors of Ag/CuWO <sub>4</sub> /FTO device. <i>Solid State Communications</i> , <b>2015</b> , 223, 1-5	1.6	4
48	White-light-controlled resistive switching characteristics of TiO <sub>2</sub> /Cu <sub>2</sub> O composite nanorods array. <i>Chemical Physics</i> , <b>2015</b> , 457, 28-31	2.3	15
47	Preparation and light-controlled resistive switching memory behavior of CuCr <sub>2</sub> O <sub>4</sub> . <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 75, 664-669	2.3	11
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45	The DNA strand assisted conductive filament mechanism for improved resistive switching memory. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12149-12155	7.1	68
44	Resistive switching memory characteristics of single MoSe <sub>2</sub> nanorods. <i>Chemical Physics Letters</i> , <b>2015</b> , 638, 103-107	2.5	18
43	Hydrothermal Preparation and White-Light-Controlled Resistive Switching Behavior of BaWO <sub>4</sub> Nanospheres. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 80-85	19.5	29
42	Resistive switching of multiferroic BiCoO <sub>3</sub> nanoflowers. <i>Functional Materials Letters</i> , <b>2015</b> , 08, 1550001	1.2	8

41	Light-controlled resistive switching memory of multiferroic BiMnO <sub>3</sub> nanowire arrays. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 6718-21	3.6	76
40	Photoinduced p-Type Conductivity in n-Type ZnO. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 1003-1007	1.9	2
39	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> , <b>2015</b> , 446, 194-202	9.3	48
38	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> , <b>2015</b> , 5, 13513-13518	3.7	58
37	Resistive Switching Effect Enhanced by Illumination in Ag/GeO <sub>2</sub> /FTO Device. <i>Nanoscience and Nanotechnology Letters</i> , <b>2015</b> , 7, 406-410	0.8	2
36	Perpendicular coercive force of thick CoFeB thin films grown on silicon substrate. <i>Materials Letters</i> , <b>2014</b> , 123, 221-223	3.3	12
35	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> , <b>2014</b> , 16, 1	2.3	14
34	Superior resistive switching behaviors of FeWO <sub>4</sub> single-crystalline nanowires array. <i>Chemical Physics Letters</i> , <b>2014</b> , 604, 127-130	2.5	24
33	Magnetic Properties of Ultrathin $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Films Grown on Silicon Substrate. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	7
32	Visible-light controlled ferroelectricity and magnetoelectric coupling in multiferroic BiCoO <sub>3</sub> nanoribbons. <i>RSC Advances</i> , <b>2014</b> , 4, 50102-50106	3.7	11
31	Hydrothermal synthesis and resistive switching behaviour of WO <sub>3</sub> /CoWO <sub>4</sub> core-shell nanowires. <i>CrystEngComm</i> , <b>2014</b> , 16, 9891-9895	3.3	52
30	Necklace-like mesoporous MgO/TiO <sub>2</sub> heterojunction structures with excellent capability for water treatment. <i>Dalton Transactions</i> , <b>2014</b> , 43, 2348-51	4.3	23
29	Enhanced resistive switching effect upon illumination in self-assembled NiWO <sub>4</sub> nano-nests. <i>Chemical Communications</i> , <b>2014</b> , 50, 13142-5	5.8	98
28	Vacuum-annealing-tailored robust and flexible nanopore-structured Fe <sub>2</sub> O <sub>3</sub> film anodes for high capacity and long life Na-ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 36815	3.7	30
27	White-Light-Controlled Magnetic and Ferroelectric Properties in Multiferroic BiFeO <sub>3</sub> Square Nanosheets. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18814-18819	3.8	51
26	Reversible resistive switching behaviors of multiferroic single-crystalline BiCoO <sub>3</sub> microribbons. <i>Chemical Physics Letters</i> , <b>2014</b> , 613, 100-103	2.5	11
25	White-light-controlled resistive switching effect in [BaTiO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> ]/ZnO film. <i>Solid State Communications</i> , <b>2014</b> , 194, 16-19	1.6	9
24	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> , <b>2014</b> , 2, 7547	7.1	33

23	Fabrication of CeO <sub>2</sub> nanoparticle-modified silk for UV protection and antibacterial applications. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 435, 8-14	9.3	87
22	Effect of Thickness and Annealing Temperature on Magnetic Properties of Ultrathin Fe <sub>2</sub> O <sub>3</sub> Films Grown on Silicon Substrate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 5245-5248	2.3	5
21	Room-temperature multiferroic properties of single-crystalline FeWO <sub>4</sub> nanowires. <i>Scripta Materialia</i> , <b>2014</b> , 89, 17-20	5.6	17
20	A light-modified ferroelectric resistive switching behavior in Ag/BaMoO <sub>4</sub> /FTO device at ambient temperature. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 220, 32-36	3.3	6
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18	Difference in Molecular Composition of the Carbon Disulfide/Acetone-extractable Fraction between Xilinhaote Lignite and Geting Bituminous Coal. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2014</b> , 36, 2651-2659	1.6	0
17	Room-temperature ferromagnetism of single-crystalline MoS <sub>2</sub> nanowires. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 468-470	0.9	11
16	Light-controlled resistive switching of ZnWO <sub>4</sub> nanowires array. <i>AIP Advances</i> , <b>2014</b> , 4, 077127	1.5	11
15	Sacrificial polymer thin-film template with tunability to construct high-density Au nanoparticle arrays and their refractive index sensing. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 15499-507	3.6	9
14	Facile one-pot synthesis of lepidocrocite (FeOOH) nanoflakes for water treatment. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 2551	3.6	34
13	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. <i>Nanotechnology</i> , <b>2013</b> , 24, 045605	3.4	9
12	Self-assembling micro-sized materials to fabricate multifunctional hierarchical nanostructures on macroscale substrates. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6416	1.3	19
11	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> , <b>2013</b> , 3, 5430	3.7	36
10	Silver-insertion induced improvements in dielectric characteristics of the Hf-based film. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 575, 370-374	5.7	6
9	Charged drug delivery by ultrafast exponentially grown weak polyelectrolyte multilayers: amphoteric properties, ultrahigh loading capacity and pH-responsiveness. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9351		28
8	Stimuli-Free Reversible and Controllable Loading and Release of Proteins under Physiological Conditions by Exponentially Growing Nanoporous Multilayered Structure. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1932-1939	15.6	28
7	A tunable radio-frequency magnetic probe. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 054703	1.7	4
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