

# Bai Sun

## List of Publications by Citations

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184  
papers

4,085  
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35  
h-index

51  
g-index

200  
ext. papers

5,143  
ext. citations

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L-index

| #   | Paper                                                                                                                                                                                                                  | IF   | Citations |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 184 | Coexistence of Negative Differential Resistance and Resistive Switching Memory at Room Temperature in TiOx Modulated by Moisture. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700567                      | 6.4  | 107       |
| 183 | Enhanced resistive switching effect upon illumination in self-assembled NiWO4 nano-nests. <i>Chemical Communications</i> , <b>2014</b> , 50, 13142-5                                                                   | 5.8  | 98        |
| 182 | Polymer-Mediated Self-Assembly of TiO2@Cu2O 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        |
| 181 | Fabrication of CeO2 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        |
| 180 | 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        |
| 179 | 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        |
| 178 | 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        |
| 177 | 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        |
| 176 | Light-controlled resistive switching memory of multiferroic BiMnO3 nanowire arrays. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 6718-21                                                             | 3.6  | 76        |
| 175 | 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        |
| 174 | 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        |
| 173 | Investigation of the behaviour of electronic resistive switching memory based on MoSe2-doped ultralong Se microwires. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 143904                                       | 3.4  | 67        |
| 172 | Capacitive effect: An original of the resistive switching memory. <i>Nano Energy</i> , <b>2020</b> , 68, 104386                                                                                                        | 17.1 | 66        |
| 171 | Biomemristors as the next generation bioelectronics. <i>Nano Energy</i> , <b>2020</b> , 75, 104938                                                                                                                     | 17.1 | 61        |
| 170 | Investigation of a submerging redox behavior in Fe2O3 solid electrolyte for resistive switching memory. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 163506                                                     | 3.4  | 60        |
| 169 | Magnetic-field and white-light controlled resistive switching behaviors in Ag/[BiFeO3/Fe2O3]/FTO device. <i>RSC Advances</i> , <b>2015</b> , 5, 13513-13518                                                            | 3.7  | 58        |
| 168 | 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        |

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| 167 | 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 |
| 166 | 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 |
| 165 | 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 |
| 164 | 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 |
| 163 | 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 |
| 162 | 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 |
| 161 | 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 |
| 160 | Oxide-based RRAM switching mechanism: A new ion-transport-recombination model <b>2008</b> ,                                                                                                                                                                 |     | 47 |
| 159 | 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 |
| 158 | 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 |
| 157 | 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 |
| 156 | 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 |
| 155 | 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 |
| 154 | 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 |
| 153 | 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 |
| 152 | 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 |
| 151 | Overwhelming coexistence of negative differential resistance effect and RRAM. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20635-20640                                                                                                    | 3.6 | 36 |
| 150 | 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 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 149 | 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 |
| 148 | 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 |
| 147 | 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 |
| 146 | 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 |
| 145 | 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 |
| 144 | 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 |
| 143 | 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 |
| 142 | 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 |
| 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 | 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 |
| 139 | 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 |
| 138 | A nonvolatile organic resistive switching memory based on lotus leaves. <i>Chemical Physics</i> , <b>2019</b> , 516, 168-174                                                                                                                                                             | 2.3  | 32 |
| 137 | Synaptic devices based neuromorphic computing applications in artificial intelligence. <i>Materials Today Physics</i> , <b>2021</b> , 18, 100393                                                                                                                                         | 8    | 31 |
| 136 | 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 |
| 135 | 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 |
| 134 | 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 |
| 133 | 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 |
| 132 | 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 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 131 | Hydrothermal Preparation and White-Light-Controlled Resistive Switching Behavior of BaWO Nanospheres. <i>Nano-Micro Letters</i> , <b>2015</b> , 7, 80-85                                                                                                                 | 19.5 | 29 |
| 130 | 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 |
| 129 | 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 |
| 128 | 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 |
| 127 | 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 |
| 126 | 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 |
| 125 | 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 |
| 124 | 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 |
| 123 | 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 |
| 122 | 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 |
| 121 | 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 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | 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 |
| 116 | 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 |
| 115 | Resistive switching effect of Ag/MoS <sub>2</sub> /FTO device. <i>Functional Materials Letters</i> , <b>2015</b> , 08, 1550010                                                                                                                                           | 1.2  | 22 |
| 114 | From Memristive Materials to Neural Networks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54243-54265                                                                                                                                              | 5.3  | 21 |

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| 113 | 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 |
| 112 | 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                                                                                            | 13  | 19 |
| 111 | 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 |
| 110 | Non-zero-crossing current-voltage hysteresis behavior in memristive system. <i>Materials Today Advances</i> , <b>2020</b> , 6, 100056                                                                                                                                               | 7.4 | 18 |
| 109 | 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 |
| 108 | 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 |
| 107 | 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 |
| 106 | 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 |
| 105 | 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> , <b>2014</b> , 25, 4306-4311                                              | 2.1 | 17 |
| 104 | Volatile and Nonvolatile Memristive Devices for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , <b>2017</b> , 6, 2101127                                                                                                                                             | 6.4 | 17 |
| 103 | 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 |
| 102 | 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 |
| 101 | Bipolar resistive switching memory behaviors of the micro-size composite particles. <i>Composite Structures</i> , <b>2017</b> , 166, 177-183                                                                                                                                        | 5.3 | 16 |
| 100 | A sustainable biomemristive memory device based on natural collagen. <i>Materials Today Chemistry</i> , <b>2019</b> , 13, 18-24                                                                                                                                                     | 6.2 | 16 |
| 99  | 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 |
| 98  | 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 |
| 97  | 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 |
| 96  | 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 |



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| 95 | 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 |
| 94 | ABO multiferroic perovskite materials for memristive memory and neuromorphic computing. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 939-970                                                                                        | 10.8 | 15 |
| 93 | 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 |
| 92 | 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 |
| 91 | 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 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | 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 |
| 86 | 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 |
| 85 | Light regulated IV hysteresis loop of Ag/BiFeO <sub>3</sub> /FTO thin film. <i>Applied Surface Science</i> , <b>2017</b> , 393, 325-329                                                                                             | 2.7  | 13 |
| 84 | Multistate resistive switching behaviors for neuromorphic computing in memristor. <i>Materials Today Advances</i> , <b>2021</b> , 9, 100125                                                                                         | 7.4  | 13 |
| 83 | 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 |
| 82 | An optoelectronic resistive switching memory behavior of Ag/Er <sub>2</sub> NbWO <sub>4</sub> /FTO device. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 681, 516-521                                                      | 5.7  | 12 |
| 81 | 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 |
| 80 | 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 |
| 79 | 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 |
| 78 | 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 |

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| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | Photo-regulated magnetism and photoferroelectric effect in BiFeO <sub>3</sub> nanoribbons at room temperature. <i>Scripta Materialia</i> , <b>2015</b> , 105, 26-29                                                          | 5.6 | 11 |
| 73 | 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 |
| 72 | Light-controlled resistive switching of ZnWO <sub>4</sub> nanowires array. <i>AIP Advances</i> , <b>2014</b> , 4, 077127                                                                                                     | 1.5 | 11 |
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