

# Ilia Valov

## List of Publications by Citations

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123  
papers

6,900  
citations

41  
h-index

81  
g-index

134  
ext. papers

7,863  
ext. citations

8.2  
avg, IF

6.29  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 123 | Electrochemical metallization memories--fundamentals, applications, prospects. <i>Nanotechnology</i> , <b>2011</b> , 22, 254003  | 3.4  | 565       |
| 122 | Nanoscale cation motion in TaO(x), HfO(x) and TiO(x) memristive systems. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 67-74  | 28.7 | 419       |
| 121 | Electrochemical dynamics of nanoscale metallic inclusions in dielectrics. <i>Nature Communications</i> , <b>2014</b> , 5, 4232   | 17.4 | 411       |
| 120 | Nanobatteries in redox-based resistive switches require extension of memristor theory. <i>Nature Communications</i> , <b>2013</b> , 4, 1771  | 17.4 | 395       |
| 119 | Recommended Methods to Study Resistive Switching Devices. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800143  | 6.4  | 297       |
| 118 | Effects of Moisture on the Switching Characteristics of Oxide-Based, Gapless-Type Atomic Switches. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 70-77                                      | 15.6 | 217       |
| 117 | Electrochemical metallization memoriesfundamentals, applications, prospects. <i>Nanotechnology</i> , <b>2011</b> , 22, 289502  | 3.4  | 193       |
| 116 | Atomically controlled electrochemical nucleation at superionic solid electrolyte surfaces. <i>Nature Materials</i> , <b>2012</b> , 11, 530-5   | 27   | 187       |
| 115 | Generic relevance of counter charges for cation-based nanoscale resistive switching memories. <i>ACS Nano</i> , <b>2013</b> , 7, 6396-402  | 16.7 | 183       |
| 114 | Coexistence of Grain-Boundaries-Assisted Bipolar and Threshold Resistive Switching in Multilayer Hexagonal Boron Nitride. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604811             | 15.6 | 149       |
| 113 | Cation-based resistance change memory. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 074005  | 3    | 147       |
| 112 | A chemically driven insulator-metal transition in non-stoichiometric and amorphous gallium oxide. <i>Nature Materials</i> , <b>2008</b> , 7, 391-8   | 27   | 136       |
| 111 | Multibit memory operation of metal-oxide bi-layer memristors. <i>Scientific Reports</i> , <b>2017</b> , 7, 17532   | 4.9  | 133       |
| 110 | Redox Reactions at Cu,Ag/Ta2O5 Interfaces and the Effects of Ta2O5 Film Density on the Forming Process in Atomic Switch Structures. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6374-6381 | 15.6 | 133       |
| 109 | Switching kinetics of electrochemical metallization memory cells. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6945-52   | 3.6  | 126       |
| 108 | Graphene-Modified Interface Controls Transition from VCM to ECM Switching Modes in Ta/TaOx Based Memristive Devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 6202-7                              | 24   | 120       |
| 107 | Redox-Based Resistive Switching Memories (ReRAMs): Electrochemical Systems at the Atomic Scale. <i>ChemElectroChem</i> , <b>2014</b> , 1, 26-36  | 4.3  | 119       |

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|-----|--|------|-----|
| 106 | Quantum conductance and switching kinetics of AgI-based microcrossbar cells. <i>Nanotechnology</i> , <b>2012</b> , 23, 145703  | 3.4  | 118 |
| 105 | Silicon Oxide (SiO): A Promising Material for Resistance Switching?. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801187  | 1.7  | 105 |
| 104 | Nanoscale electrochemistry using dielectric thin films as solid electrolytes. <i>Nanoscale</i> , <b>2016</b> , 8, 13828-377.7  | 7.7  | 102 |
| 103 | Nanoionic transport and electrochemical reactions in resistively switching silicon dioxide. <i>Nanoscale</i> , <b>2012</b> , 4, 3040-3   | 7.7  | 93  |
| 102 | Self-limited single nanowire systems combining all-in-one memristive and neuromorphic functionalities. <i>Nature Communications</i> , <b>2018</b> , 9, 5151                              | 17.4 | 83  |
| 101 | Resistive Switching Mechanisms on TaOx and SrRuO3 Thin-Film Surfaces Probed by Scanning Tunneling Microscopy. <i>ACS Nano</i> , <b>2016</b> , 10, 1481-92                                | 16.7 | 79  |
| 100 | Electrocatalysts for bifunctional oxygen/air electrodes. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 727-733  | 8.9  | 78  |
| 99  | Nucleation and growth phenomena in nanosized electrochemical systems for resistive switching memories. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 365-371        | 2.6  | 75  |
| 98  | Interfacial Metal-Oxide Interactions in Resistive Switching Memories. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19287-19295                                       | 9.5  | 74  |
| 97  | Effects of moisture and redox reactions in VCM and ECM resistive switching memories. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 413001                                | 3    | 72  |
| 96  | Interfacial interactions and their impact on redox-based resistive switching memories (ReRAMs). <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 093006                   | 1.8  | 72  |
| 95  | Impact of the Counter-Electrode Material on Redox Processes in Resistive Switching Memories. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1287-1292   | 4.3  | 68  |
| 94  | Processes and Effects of Oxygen and Moisture in Resistively Switching TaOx and HfOx. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700458                                     | 6.4  | 65  |
| 93  | Redox processes in silicon dioxide thin films using copper microelectrodes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 203103  | 3.4  | 61  |
| 92  | Recent Developments and Perspectives for Memristive Devices Based on Metal Oxide Nanowires. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800909                              | 6.4  | 58  |
| 91  | Oxide nitrides: From oxides to solids with mobile nitrogen ions. <i>Progress in Solid State Chemistry</i> , <b>2009</b> , 37, 81-131   | 8    | 58  |
| 90  | Volatile resistance states in electrochemical metallization cells enabling non-destructive readout of complementary resistive switches. <i>Nanotechnology</i> , <b>2014</b> , 25, 425202 | 3.4  | 55  |
| 89  | Electrochemical Tantalum Oxide for Resistive Switching Memories. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703357   | 5.7  | 52  |

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|----|--|-----|----|
| 88 | Nanobattery Effect in RRAMs—Implications on Device Stability and Endurance. <i>IEEE Electron Device Letters</i> , <b>2014</b> , 35, 208-210  | 4.4 | 51 |
| 87 | Defect chemistry of the cage compound, Ca(12)Al(14)O(33-delta)-understanding the route from a solid electrolyte to a semiconductor and electride. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3105-14 | 3.6 | 49 |
| 86 | Electrochemical deposition of thin zirconia films on stainless steel 316 L. <i>Materials Chemistry and Physics</i> , <b>2000</b> , 65, 222-225   | 4.4 | 47 |
| 85 | Electrochemical processes and device improvement in conductive bridge RAM cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 274-288  | 1.6 | 44 |
| 84 | Faradaic currents during electroforming of resistively switching Ag-Ge-Se type electrochemical metallization memory cells. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 5974-9                         | 3.6 | 43 |
| 83 | Humidity effects on the redox reactions and ionic transport in a Cu/Ta2O5/Pt atomic switch structure. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 06GJ09  | 1.4 | 41 |
| 82 | Oxygen Exchange Processes between Oxide Memristive Devices and Water Molecules. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800957   | 2.4 | 41 |
| 81 | Bond nature of active metal ions in SiO2-based electrochemical metallization memory cells. <i>Nanoscale</i> , <b>2013</b> , 5, 1781-4  | 7.7 | 41 |
| 80 | Active Electrode Redox Reactions and Device Behavior in ECM Type Resistive Switching Memories. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800933   | 6.4 | 40 |
| 79 | Ag/GeSx/Pt-based complementary resistive switches for hybrid CMOS/nanoelectronic logic and memory architectures. <i>Scientific Reports</i> , <b>2013</b> , 3, 2856   | 4.9 | 40 |
| 78 | Direct Probing of the Dielectric Scavenging-Layer Interface in Oxide Filamentary-Based Valence Change Memory. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10820-10824                               | 9.5 | 39 |
| 77 | Direct observation of charge transfer in solid electrolyte for electrochemical metallization memory. <i>Advanced Materials</i> , <b>2012</b> , 24, 4552-6  | 2.4 | 39 |
| 76 | An associative capacitive network based on nanoscale complementary resistive switches for memory-intensive computing. <i>Nanoscale</i> , <b>2013</b> , 5, 5119-28  | 7.7 | 39 |
| 75 | Capacity based nondestructive readout for complementary resistive switches. <i>Nanotechnology</i> , <b>2011</b> , 22, 395203   | 3.4 | 39 |
| 74 | SET kinetics of electrochemical metallization cells: influence of counter-electrodes in SiO/Ag based systems. <i>Nanotechnology</i> , <b>2017</b> , 28, 135205   | 3.4 | 37 |
| 73 | Nanoarchitectonics for Controlling the Number of Dopant Atoms in Solid Electrolyte Nanodots. <i>Advanced Materials</i> , <b>2018</b> , 30, 1703261   | 2.4 | 37 |
| 72 | Rate-limiting processes in the fast SET operation of a gapless-type Cu-Ta2O5 atomic switch. <i>AIP Advances</i> , <b>2013</b> , 3, 032114  | 1.5 | 37 |
| 71 | Electrode activation and degradation: Morphology changes of platinum electrodes on YSZ during electrochemical polarisation. <i>Solid State Ionics</i> , <b>2008</b> , 179, 1835-1848                                     | 3.3 | 36 |

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|----|--|------|----|
| 70 | Standards for the Characterization of Endurance in Resistive Switching Devices. <i>ACS Nano</i> , <b>2021</b> ,  | 16.7 | 36 |
| 69 | Electrochemical growth of thin La <sub>2</sub> O <sub>3</sub> films on oxide and metal surfaces. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 123-128                                  | 8.3  | 34 |
| 68 | Design of defect-chemical properties and device performance in memristive systems. <i>Science Advances</i> , <b>2020</b> , 6, eaaz9079   | 14.3 | 31 |
| 67 | Non-volatile memories: Organic memristors come of age. <i>Nature Materials</i> , <b>2017</b> , 16, 1170-1172   | 27   | 30 |
| 66 | Ordering and Phase Control in Epitaxial Double-Perovskite Catalysts for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7029-7037   | 13.1 | 30 |
| 65 | Modeling of Quantized Conductance Effects in Electrochemical Metallization Cells. <i>IEEE Nanotechnology Magazine</i> , <b>2015</b> , 14, 505-512  | 2.6  | 30 |
| 64 | Comment on real-time observation on dynamic growth/dissolution of conductive filaments in oxide-electrolyte- based ReRAM. <i>Advanced Materials</i> , <b>2013</b> , 25, 162-4                            | 24   | 30 |
| 63 | Thermodynamics, structure and kinetics in the system Ga <sub>2</sub> O <sub>3</sub> . <i>Progress in Solid State Chemistry</i> , <b>2009</b> , 37, 132-152   | 8    | 30 |
| 62 | Ionic and electronic conductivity of nitrogen-doped YSZ single crystals. <i>Solid State Ionics</i> , <b>2009</b> , 180, 1463-1470  | 28   |    |
| 61 | Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2000096     | 6    | 27 |
| 60 | Chemical composition and corrosion resistance of passive chromate films formed on stainless steels 316 L and 1.4301. <i>Materials Chemistry and Physics</i> , <b>2002</b> , 73, 252-258                  | 4.4  | 26 |
| 59 | Stability and Degradation of Perovskite Electrocatalysts for Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 218, 156-162  | 6.7  | 26 |
| 58 | Physical origins and suppression of Ag dissolution in GeS(x)-based ECM cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18217-25  | 3.6  | 25 |
| 57 | Proton mobility in SiO <sub>2</sub> thin films and impact of hydrogen and humidity on the resistive switching effect. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1330, 30201 |      | 24 |
| 56 | 2022 roadmap on neuromorphic computing and engineering. <i>Neuromorphic Computing and Engineering</i> ,  |      | 24 |
| 55 | Study of the kinetics of processes during electrochemical deposition of zirconia from nonaqueous electrolytes. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 4419-4431                                  | 6.7  | 23 |
| 54 | Electrochemically prepared oxides for resistive switching memories. <i>Faraday Discussions</i> , <b>2019</b> , 213, 165-181  | 22   |    |
| 53 | Preparation and characterization of GeS <sub>x</sub> thin-films for resistive switching memories. <i>Thin Solid Films</i> , <b>2013</b> , 527, 299-302   | 2.2  | 20 |

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| 52 | Processes and Limitations during Filament Formation and Dissolution in GeS <sub>x</sub> -based ReRAM Memory Cells. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18678-18685   | 3.8  | 18 |
| 51 | Chemically-inactive interfaces in thin film Ag/AgI systems for resistive switching memories. <i>Scientific Reports</i> , <b>2013</b> , 3, 1169   | 4.9  | 18 |
| 50 | Electrochemically prepared oxides for resistive switching devices. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 103-114.  | 11.7 | 17 |
| 49 | Electrochemical activation of molecular nitrogen at the Ir/YSZ interface. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 3394-410  | 3.6  | 17 |
| 48 | Preparation of nitrogen-doped YSZ thin films by pulsed laser deposition and their characterization. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 1931-1941  | 4.3  | 17 |
| 47 | P <sub>x</sub> Ba <sub>1-x</sub> CoO <sub>3</sub> Oxide Electrodes for Oxygen Evolution Reaction in Alkaline Solutions by Chemical Solution Deposition. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F166-F170 | 3.9  | 16 |
| 46 | Ionic Modulation of Electrical Conductivity of ZnO Due to Ambient Moisture. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900803  | 4.6  | 16 |
| 45 | Degradation Kinetics during Oxygen Electrocatalysis on Perovskite-Based Surfaces in Alkaline Media. <i>Langmuir</i> , <b>2018</b> , 34, 1347-1352  | 4    | 15 |
| 44 | Electrolysis of Water at Atomically Tailored Epitaxial Cobaltite Surfaces. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2337-2346   | 9.6  | 14 |
| 43 | Electrochemical Metallization Memories <b>2016</b> , 483-514   |      | 14 |
| 42 | Understanding the conductive channel evolution in Na:WO(3-x)-based planar devices. <i>Nanoscale</i> , <b>2015</b> , 7, 6023-30   | 7.7  | 13 |
| 41 | Water-Mediated Ionic Migration in Memristive Nanowires with a Tunable Resistive Switching Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48773-48780   | 9.5  | 13 |
| 40 | Electrochemical Incorporation of Nitrogen into a Zirconia Solid Electrolyte. <i>Electrochemical and Solid-State Letters</i> , <b>2006</b> , 9, F23   |      | 12 |
| 39 | Kinetic studies of the electrochemical nitrogen reduction and incorporation into yttria stabilized zirconia. <i>Solid State Ionics</i> , <b>2006</b> , 177, 1619-1624  | 3.3  | 11 |
| 38 | Nitrogen Tracer Diffusion in Yttria Doped Zirconium Oxonitride. <i>Defect and Diffusion Forum</i> , <b>2005</b> , 237-240, 479-484   | 0.7  | 11 |
| 37 | (Invited) Mobile Ions, Transport and Redox Processes in Memristive Devices. <i>ECS Transactions</i> , <b>2016</b> , 75, 27-39  | 1    | 11 |
| 36 | Comment on Dynamic Processes of Resistive Switching in Metallic Filament-Based Organic Memory Devices <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11878-11880  | 3.8  | 10 |
| 35 | Simulation of polarity independent RESET in electrochemical metallization memory cells <b>2013</b> ,   |      | 9  |

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|----|---|------|---|
| 34 | Spring-Like Pseudoelasticity of Monocrystalline CuS Nanowire. <i>Nano Letters</i> , <b>2018</b> , 18, 5070-5077   | 11.5 | 9 |
| 33 | (Keynote) Atomic Scale and Interface Interactions in Redox-Based Resistive Switching Memories. <i>ECS Transactions</i> , <b>2014</b> , 64, 3-18   | 1    | 8 |
| 32 | An EMF cell with a nitrogen solid electrolyte--on the transference of nitrogen ions in yttria-stabilized zirconia. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 1239-42           | 3.6  | 8 |
| 31 | Electrochemical Reactions in Nanoionics - Towards Future Resistive Switching Memories. <i>ECS Transactions</i> , <b>2009</b> , 25, 431-437  | 1    | 7 |
| 30 | Resistivity control by the electrochemical removal of dopant atoms from a nanodot. <i>Faraday Discussions</i> , <b>2019</b> , 213, 29-40  | 3.6  | 6 |
| 29 | Ionic conductivity of low yttria-doped cubic zirconium oxide nitride single crystals. <i>Solid State Ionics</i> , <b>2016</b> , 296, 42-46  | 3.3  | 6 |
| 28 | Memristors with alloyed electrodes. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 510-511  | 28.7 | 5 |
| 27 | Design of Materials Configuration for Optimizing Redox-Based Resistive Switching Memories. <i>Advanced Materials</i> , <b>2021</b> , e2105022   | 24   | 5 |
| 26 | Electrochemical metallization ReRAMs (ECM) - Experiments and modelling: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 213, 115-150   | 3.6  | 4 |
| 25 | Influence of Graphene Interlayers on Electrode-Electrolyte Interfaces in Resistive Random Accesses Memory Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1729, 29-34 |      | 4 |
| 24 | Physics and Chemistry of Nanoionic Cells <b>2016</b> , 253-288  |      | 4 |
| 23 | Editorial for the JECR special issue on resistive switching: Oxide materials, mechanisms, and devices. <i>Journal of Electroceramics</i> , <b>2017</b> , 39, 1-3                                    | 1.5  | 4 |
| 22 | Statistical modeling of electrochemical metallization memory cells <b>2014</b> ,  |      | 4 |
| 21 | Structure-Dependent Influence of Moisture on Resistive Switching Behavior of ZnO Thin Films. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100915  | 4.6  | 4 |
| 20 | Quantum conductance in memristive devices: fundamentals, developments, and applications.. <i>Advanced Materials</i> , <b>2022</b> , e2201248  | 24   | 4 |
| 19 | Phase-change memories (PCM) - Experiments and modelling: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 213, 393-420  | 3.6  | 3 |
| 18 | New insights into redox based resistive switches <b>2013</b> ,  |      | 3 |
| 17 | Quantum size effects and non-equilibrium states in nanoscale silicon dioxide based resistive switches <b>2014</b> ,   |      | 2 |



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|----|--|-----|---|
| 16 | (Invited) The Role of Electrochemical Interfaces in ReRAM Memory Cells. <i>ECS Transactions</i> , <b>2013</b> , 58, 189-196  | 1   | 2 |
| 15 | A Study of the Kinetics of the Electrochemical Deposition of Ce <sup>3+</sup> /Ce <sup>4+</sup> Oxides. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2011</b> , 167-172                                  | 0.2 | 2 |
| 14 | Brain-Inspired Structural Plasticity through Reweighting and Rewiring in Multi-Terminal Self-Organizing Memristive Nanowire Networks. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2080071   | 6   | 2 |
| 13 | Impact of moisture absorption on the resistive switching characteristics of a polyethylene oxide-based atomic switch. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11198-11206   | 7.1 | 2 |
| 12 | Synaptic and neuromorphic functions: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 213, 553-578   | 3.6 | 1 |
| 11 | Live demonstration: An associative capacitive network based on nanoscale complementary resistive switches <b>2014</b> ,  |     | 1 |
| 10 | Electrocatalysts and Electrode Design for Bifunctional Oxygen/Air Electrodes. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2008</b> , 305-310  | 0.2 | 1 |
| 9  | Impact of Zr top electrode on tantalum oxide-based electrochemical metallization resistive switching memory: towards synaptic functionalities.. <i>RSC Advances</i> , <b>2022</b> , 12, 14235-14245  | 3.7 | 1 |
| 8  | Copper facilitated nickel oxy-hydroxide films as efficient synergistic oxygen evolution electrocatalyst. <i>Journal of Catalysis</i> , <b>2020</b> , 384, 189-198  | 7.3 | 0 |
| 7  | Memristive devices based on single ZnO nanowires from material synthesis to neuromorphic functionalities. <i>Semiconductor Science and Technology</i> , <b>2022</b> , 37, 034002   | 1.8 | 0 |
| 6  | Forming-Free Resistive Switching of Electrochemical Titanium Oxide Localized Nanostructures: Anodization, Chemical Composition, Nanoscale Size Effects, and Memristive Storage. <i>Advanced Electronic Materials</i> , <b>2020</b> , 2200215 | 6.4 | 0 |
| 5  | Defect Chemistry and Transport Properties of Nitrogen-Doped YSZ. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2008</b> , 634, 2011-2011  | 1.3 |   |
| 4  | Nanoscale Electrochemical Studies: How Can We Use the Atomic Switch. <i>Advances in Atom and Single Molecule Machines</i> , <b>2020</b> , 73-93  | 0   |   |
| 3  | Poster: Memristive Systems 523-587   |     |   |
| 2  | Nanosession: Electrochemical Metallization Memories 207-217  |     |   |
| 1  | Oxide Thin Films for Memristive Devices <b>2018</b> , 346-356  |     |   |