CITATION REPORT List of articles citing

Memristive devices and systems

DOI: 10.1109/proc.1976.10092 Proceedings of the IEEE, 1976, 64, 209-223.

Source: https://exaly.com/paper-pdf/12558652/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

| # | Paper | IF | Citations |
|------|---|------|-----------|
| 1811 | Section-wise piecewise-linear functions: Canonical representation, properties, and applications. <i>Proceedings of the IEEE</i> , 1977 , 65, 915-929 | 14.3 | 160 |
| 1810 | A theory of nonenergic N-ports. 1977 , 5, 181-208 | | 16 |
| 1809 | Small-signal characteristics of a read diode under conditions of field-dependent velocity and finite reverse saturation current. 1978 , 21, 609-615 | | 11 |
| 1808 | Duality between superconducting and semiconducting electronics. 1979 , 14, 758-762 | | 17 |
| 1807 | Device modeling via nonlinear circuit elements. 1980 , 27, 1014-1044 | | 202 |
| 1806 | Energy concepts in the state-space theory of nonlinear n-ports: Part I-Passivity. 1981 , 28, 48-61 | | 58 |
| 1805 | Analysis of Electric Arcs in AC Circuits. 1983 , PAS-102, 586-595 | | 1 |
| 1804 | . 1984 , 31, 69-87 | | 53 |
| 1803 | | | 1 |
| 1802 | . 1995 , 42, 559-577 | | 166 |
| 1801 | A method to model neuron activity. 2006 , 2006, 4192-5 | | |
| 1800 | Self-organized computation with unreliable, memristive nanodevices. 2007 , 18, 365202 | | 204 |
| 1799 | Reproducible resistive switching effect for memory applications in heterocontacts based on strongly correlated electron systems. 2008 , 372, 6681-6686 | | 17 |
| 1798 | The missing memristor found. 2008, 453, 80-3 | | 7042 |
| 1797 | MEMRISTOR OSCILLATORS. 2008 , 18, 3183-3206 | | 692 |
| 1796 | Spin memristive systems: Spin memory effects in semiconductor spintronics. 2008, 78, | | 135 |
| 1795 | . 2008, | | 202 |

| 1794 | Models and modeling: be careful and use your imagination. 2008 , 50, 215-221 | 6 |
|--------------------------------------|---|--------------------------|
| 1793 | Transmission characteristics study of memristors based Op-Amp circuits. 2009, | 1 |
| 1792 | Frequency doubling and memory effects in the spin Hall effect. 2009 , 79, | 23 |
| 1791 | Electrical transport and thermometry of electroformed titanium dioxide memristive switches. 2009 , 106, 124504 | 81 |
| 1790 | A hybrid nanomemristor/transistor logic circuit capable of self-programming. 2009, 106, 1699-703 | 213 |
| 1789 | A PWL model of memristor and its application example. 2009, | 4 |
| 1788 | Nonvolatile memristor memory. 2009, | 155 |
| 1787 | Four-dimensional address topology for circuits with stacked multilayer crossbar arrays. 2009 , 106, 20155-8 | 118 |
| 1786 | Circuit Elements With Memory: Memristors, Memcapacitors, and Meminductors. <i>Proceedings of the IEEE</i> , 2009 , 97, 1717-1724 | 670 |
| | | |
| 1785 | Putting Memory Into Circuit Elements: Memristors, Memcapacitors, and Meminductors [Point of View]. <i>Proceedings of the IEEE</i> , 2009 , 97, 1371-1372 | 52 |
| 1785 1784 | | 5 ² 3799 |
| 1784 | View]. <i>Proceedings of the IEEE</i> , 2009 , 97, 1371-1372 Redox-Based Resistive Switching Memories [Nanoionic Mechanisms, Prospects, and Challenges. | |
| 1784 | View]. <i>Proceedings of the IEEE</i> , 2009 , 97, 1371-1372 Redox-Based Resistive Switching Memories [Nanoionic Mechanisms, Prospects, and Challenges. 2009 , 21, 2632-2663 | 3799 |
| 1784 1783 | Niew]. <i>Proceedings of the IEEE</i> , 2009 , 97, 1371-1372 Redox-Based Resistive Switching Memories [Nanoionic Mechanisms, Prospects, and Challenges. 2009 , 21, 2632-2663 A Family of Electronically Reconfigurable Nanodevices. 2009 , 21, 3754-3758 Coupled ionic and electronic transport model of thin-film semiconductor memristive behavior. | 3799 |
| 1784 1783 1782 | Niew]. Proceedings of the IEEE, 2009, 97, 1371-1372 Redox-Based Resistive Switching Memories [Nanoionic Mechanisms, Prospects, and Challenges. 2009, 21, 2632-2663 A Family of Electronically Reconfigurable Nanodevices. 2009, 21, 3754-3758 Coupled ionic and electronic transport model of thin-film semiconductor memristive behavior. 2009, 5, 1058-63 | 3799 195 236 |
| 1784 1783 1782 | Redox-Based Resistive Switching Memories [Nanoionic Mechanisms, Prospects, and Challenges. 2009, 21, 2632-2663 A Family of Electronically Reconfigurable Nanodevices. 2009, 21, 3754-3758 Coupled ionic and electronic transport model of thin-film semiconductor memristive behavior. 2009, 5, 1058-63 Digital logic implementation in memristor-based crossbars. 2009, | 3799 195 236 18 |
| 1784 1783 1782 1781 1780 | Redox-Based Resistive Switching Memories INanoionic Mechanisms, Prospects, and Challenges. 2009, 21, 2632-2663 A Family of Electronically Reconfigurable Nanodevices. 2009, 21, 3754-3758 Coupled ionic and electronic transport model of thin-film semiconductor memristive behavior. 2009, 5, 1058-63 Digital logic implementation in memristor-based crossbars. 2009, High-density crossbar arrays based on a Si memristive system. 2009, 9, 870-4 | 3799 195 236 18 |

| 1776 Analog memory capacitor based on field-configurable ion-doped polymers. 2009 , 95, 213503 | 31 |
|---|-----|
| 1775 Memristive model of amoeba learning. 2009 , 80, 021926 | 314 |
| 1774 The elusive memristor: properties of basic electrical circuits. 2009 , 30, 661-675 | 546 |
| 1773 SPICE modeling of memristive, memcapacitative and meminductive systems. 2009 , | 94 |
| 1772 Switching dynamics in titanium dioxide memristive devices. 2009 , 106, 074508 | 506 |
| 1771 Writing to and reading from a nano-scale crossbar memory based on memristors. 2009 , 20, 425204 | 183 |
| 1770 Spintronic Memristor Through Spin-Torque-Induced Magnetization Motion. 2009 , 30, 294-297 | 253 |
| 1769 Study of filter characteristics based on PWL memristor. 2009 , | |
| 1768 Phase-transition driven memristive system. 2009 , 95, 043503 | 267 |
| 1767 The fourth element: Insights into the memristor. 2009 , | 15 |
| 1766 Memristor based high linear range differential pair. 2009 , | 11 |
| 1765 Memristor-based fine resolution programmable resistance and its applications. 2009 , | 35 |
| 1764 Input - Output linearization of memristive systems. 2009 , | 8 |
| 1763 Compact modeling and corner analysis of spintronic memristor. 2009 , | 39 |
| 1762 Effects of proton and ion beam irradiation on titanium dioxide memristors. 2009 , | |
| MEMRISTOR CELLULAR AUTOMATA AND MEMRISTOR DISCRETE-TIME CELLULAR NEURAL NETWORKS. 2009 , 19, 3605-3656 | 253 |
| 1760 Chaos in memristor based Murali-Lakshmanan-Chua circuit. 2009 , | 2 |
| 1759 Memristance in human skin. 2010 , 224, 012071 | 13 |

(2010-2010)

| 1758 | Memristive behaviors of LiNbO3 ferroelectric diodes. 2010 , 97, 012902 | 35 |
|------------------------------|--|----------------|
| 1757 | Digital Logic Implementation in Memristor-Based Crossbars - A Tutorial. 2010 , | 20 |
| 1756 | Practical Approach to Programmable Analog Circuits With Memristors. 2010 , 57, 1857-1864 | 392 |
| 1755 | A review on memristive devices and applications. 2010, | 33 |
| 1754 | Nanoscale memristor device as synapse in neuromorphic systems. 2010 , 10, 1297-301 | 2772 |
| 1753 | Direct identification of the conducting channels in a functioning memristive device. 2010 , 22, 3573-7 | 278 |
| 1752 | Diffusion of adhesion layer metals controls nanoscale memristive switching. 2010, 22, 4034-8 | 95 |
| 1751 | Coexistence of filamentary and homogeneous resistive switching in Fe-doped SrTiO3 thin-film memristive devices. 2010 , 22, 4819-22 | 291 |
| 1750 | Experimental demonstration of associative memory with memristive neural networks. 2010 , 23, 881-6 | 744 |
| | | |
| 1749 | 'Memristive' switches enable 'stateful' logic operations via material implication. 2010 , 464, 873-6 | 1405 |
| 1749 1748 | | 1405 |
| , , , , | Passive switching of electromagnetic devices with memristors. 2010 , 96, 073504 | |
| 1748 1747 | Passive switching of electromagnetic devices with memristors. 2010 , 96, 073504 | |
| 1748 1747 | Passive switching of electromagnetic devices with memristors. 2010 , 96, 073504 Chaos in the fractional order memristor based MLC system with cubic nonlinearrity. 2010 , | 23 |
| 1748 1747 1746 | Passive switching of electromagnetic devices with memristors. 2010 , 96, 073504 Chaos in the fractional order memristor based MLC system with cubic nonlinearrity. 2010 , SPICE simulation of nanoscale non-crystalline silicon TFTs in spiking neuron circuits. 2010 , | 23 |
| 1748 1747 1746 | Passive switching of electromagnetic devices with memristors. 2010, 96, 073504 Chaos in the fractional order memristor based MLC system with cubic nonlinearrity. 2010, SPICE simulation of nanoscale non-crystalline silicon TFTs in spiking neuron circuits. 2010, Resonanting Analysis on Memresistor, Inductor and Iapcitor Series Circuit. 2010, | 23 |
| 1748 1747 1746 1745 | Passive switching of electromagnetic devices with memristors. 2010, 96, 073504 Chaos in the fractional order memristor based MLC system with cubic nonlinearrity. 2010, SPICE simulation of nanoscale non-crystalline silicon TFTs in spiking neuron circuits. 2010, Resonanting Analysis on Memresistor, Inductor and Iapcitor Series Circuit. 2010, Transient chaos in smooth memristor oscillator. 2010, 19, 030510 | 23 11 95 |

1740 Impulsive modeling of memristor oscillator and its control. **2010**,

| 1739 The role of defects in resistively switching chalcogenides. 2010 , 101, 182-198 | 12 |
|---|--------------------------|
| 1738 Memristive based oscillatory associative and dynamic memories. 2010 , | 7 |
| Memristor system properties and its design applications to circuits such as nonvolatile memories. 2010 , | memristor 3 |
| 1736 A multivalued storage system using memristor. 2010 , | 3 |
| 1735 Multi-bit N-Array Asynchronous Counting Circuit Based on Memristor. 2010 , | |
| CIRCUIT MIMICKING TiO2 MEMRISTOR: A PLUG AND PLAY KIT TO UNDERSTAND THE F PASSIVE ELEMENT. 2010 , 20, 2537-2545 | FOURTH 22 |
| TOPOLOGICAL ANALYSIS OF CHAOTIC SOLUTION OF A THREE-ELEMENT MEMRISTIVE 2010 , 20, 3819-3827 | E CIRCUIT. |
| 1732 AUTOASSOCIATIVE MEMORY CELLULAR NEURAL NETWORKS. 2010 , 20, 3225-3266 | 7 |
| 1731 Compact model of memristors and its application in computing systems. 2010 , | 1 |
| 1730 Memristors and crossbar latches. 2010 , | 3 |
| 1729 Initial State Dependent Dynamical Behaviors in a Memristor Based Chaotic Circuit. 201 | 0 , 27, 070504 74 |
| 1728 Memristive switching of single-component metallic nanowires. 2010 , 21, 125204 | 35 |
| GENERAL SPICE MODELS FOR MEMRISTOR AND APPLICATION TO CIRCUIT SIMULATION MEMRISTOR-BASED SYNAPSES AND MEMORY CELLS. 2010 , 19, 407-424 | DN OF 103 |
| 1726 Memristors and Bernoulli dynamics. 2010 , | 13 |
| 1725 Memristor-based multilevel memory. 2010 , | 70 |
| 1724 Chaotic oscillator based on current-controlled meminductor. 2010 , | 1 |
| 1723 Self-Adaptive Write Circuit for Low-Power and Variation-Tolerant Memristors. 2010 , 9, | , 675-678 42 |

(2010-2010)

| 1722 | Memristive circuits simulate memcapacitors and meminductors. 2010 , 46, 517 | 113 |
|------|--|-----|
| 1721 | Self-aligned memristor cross-point arrays fabricated with one nanoimprint lithography step. 2010 , 10, 2909-14 | 85 |
| 1720 | SIMPLEST CHAOTIC CIRCUIT. 2010 , 20, 1567-1580 | 349 |
| 1719 | Memristive systems analysis of 3-terminal devices. 2010 , | 8 |
| 1718 | Fractional-Order Memristor-Based Chua's Circuit. 2010 , 57, 975-979 | 159 |
| 1717 | A memristor SPICE model for designing memristor circuits. 2010 , | 44 |
| 1716 | Spintronic devices: From memory to memristor. 2010 , | 1 |
| 1715 | . 2010 , 29, 590-598 | 167 |
| 1714 | Macromodeling of the Memristor in SPICE. 2010 , 29, 632-636 | 187 |
| 1713 | Switching mechanisms in microscale memristors. 2010 , 46, 63 | 31 |
| 1712 | On neuromorphic spiking architectures for asynchronous STDP memristive systems. 2010 , | 42 |
| 1711 | CNN using memristors for neighborhood connections. 2010 , | 103 |
| 1710 | IMPLEMENTING MEMRISTOR BASED CHAOTIC CIRCUITS. 2010 , 20, 1335-1350 | 395 |
| 1709 | Memristive adaptive filters. 2010 , 97, 093502 | 147 |
| 1708 | Analysis of dynamic linear and non-linear memristor device models for emerging neuromorphic computing hardware design. 2010 , | 13 |
| 1707 | Delayed Switching in Memristors and Memristive Systems. 2010 , 31, 755-757 | 44 |
| 1706 | HP Memristor mathematical model for periodic signals and DC. 2010, | 47 |
| 1705 | HOPF BIFURCATION FROM LINES OF EQUILIBRIA WITHOUT PARAMETERS IN MEMRISTOR OSCILLATORS. 2010 , 20, 437-450 | 63 |

| 1704 | Silver chalcogenide based memristor devices. 2010 , | 56 |
|------|--|----|
| 1703 | Chaos in a charge-controlled memcapacitor circuit. 2010 , | 3 |
| 1702 | A new modified nodal analysis for nano-scale memristor circuit simulation. 2010, | 3 |
| 1701 | Simulated Effects of Proton and Ion Beam Irradiation on Titanium Dioxide Memristors. 2010 , 57, 1798-1804 | 25 |
| 1700 | Compact method for modeling and simulation of memristor devices: Ion conductor chalcogenide-based memristor devices. 2010 , | 37 |
| 1699 | New behavioral modeling method for crossbar-based memristor. 2010 , | 3 |
| 1698 | Time domain oscillating poles: Stability redefined in Memristor based Wien-oscillators. 2010, | 13 |
| 1697 | Neocortical frame-free vision sensing and processing through scalable Spiking ConvNet hardware. 2010 , | |
| 1696 | Memristive port-Hamiltonian Systems. 2010 , 16, 75-93 | 22 |
| 1695 | Modeling Complementary Resistive Switches by nonlinear memristive systems. 2011, | 9 |
| 1694 | . 2011, | 1 |
| 1693 | State space modeling of Memristor-based Wien oscillator. 2011 , | 6 |
| 1692 | How to teach memristors in EE undergraduate courses. 2011, | 2 |
| 1691 | Memristive Behavior Observed in a Defected Single-Walled Carbon Nanotube. 2011 , 10, 582-586 | 4 |
| 1690 | Broadband Electromagnetic Radiation Modulated by Dual Memristors. 2011 , 10, 623-626 | 11 |
| 1689 | Instar and outstar learning with memristive nanodevices. 2011 , 22, 015201 | 29 |
| 1688 | Hybrid Memristor-CMOS memory cell: Modeling and design. 2011 , | 3 |
| 1687 | OBSERVATION OF CHAOTIC BEATS IN A DRIVEN MEMRISTIVE CHUA'S CIRCUIT. 2011 , 21, 737-757 | 26 |

| 1686 | Percolation in memristive networks. 2011 , | 1 |
|------|--|-----|
| 1685 | Complementary structure of memristive devices based passive memory arrays. 2011, | 1 |
| 1684 | Lognormal switching times for titanium dioxide bipolar memristors: origin and resolution. 2011 , 22, 095702 | 61 |
| 1683 | Reconfigurable N-level memristor memory design. 2011 , | 21 |
| 1682 | Teaching Memristors to EE Undergraduate Students [Class Notes]. 2011 , 11, 36-44 | 15 |
| 1681 | Memristor Applications for Programmable Analog ICs. 2011 , 10, 266-274 | 241 |
| 1680 | . 2011 , 58, 724-736 | 205 |
| 1679 | Memristor: Modeling read and write operations. 2011, | 4 |
| 1678 | Fabrication and modeling of Ag/TiO2/ITO memristor. 2011 , | 9 |
| 1677 | Adaptive oxide electronics: A review. 2011 , 110, 071101 | 241 |
| 1676 | Nonlinear Dynamics of Memristor Oscillators. 2011 , 58, 1323-1336 | 244 |
| 1675 | Pinched hysteretic loops of ideal memristors, memcapacitors and meminductors must be Belf-crossing 12011, 47, 1385-1387 | 137 |
| 1674 | Spin-wave interference patterns created by spin-torque nano-oscillators for memory and computation. 2011 , 22, 095301 | 63 |
| 1673 | Device and SPICE modeling of RRAM devices. 2011 , 3, 3833-40 | 72 |
| 1672 | Time-dependent current distributions of a two-terminal carbon nanotube-based electronic device. 2011 , 115, 5519-25 | 12 |
| 1671 | Chaotic Modeling of Time-Delay Memristive System. 2011 , 634-641 | O |
| 1670 | A SIMPLE MEMRISTOR CHAOTIC CIRCUIT WITH COMPLEX DYNAMICS. 2011 , 21, 2629-2645 | 121 |
| 1669 | Short-term memory to long-term memory transition in a nanoscale memristor. 2011 , 5, 7669-76 | 645 |

| 1668 | Time-dependency of the threshold voltage in memristive devices. 2011 , | 13 |
|------|--|-----|
| 1667 | Electric currents in networks of interconnected memristors. 2011 , 83, 031105 | 28 |
| 1666 | Memristor synaptic dynamics' influence on synchronous behavior of two Hindmarsh-Rose neurons. 2011 , | 7 |
| 1665 | SPICE modeling of memristors. 2011 , | 129 |
| 1664 | Hebbian Learning in Spiking Neural Networks With Nanocrystalline Silicon TFTs and Memristive Synapses. 2011 , 10, 1066-1073 | 119 |
| 1663 | Dopant Control by Atomic Layer Deposition in Oxide Films for Memristive Switches. 2011 , 23, 123-125 | 56 |
| 1662 | Bi-stability, hysteresis, and memory of voltage-gated lysenin channels. 2011 , 1808, 2933-9 | 21 |
| 1661 | Electrochemical metallization memoriesfundamentals, applications, prospects. 2011 , 22, 254003 | 565 |
| 1660 | Robust neural logic block (NLB) based on memristor crossbar array. 2011 , | 54 |
| 1659 | Two-terminal resistive switches (memristors) for memory and logic applications. 2011, | 68 |
| 1658 | Memristor-based synaptic networks and logical operations using in-situ computing. 2011, | 12 |
| 1657 | Nanodevices. 2011 , 125-159 | 1 |
| 1656 | Fractional Calculus. 2011 , 7-42 | 12 |
| 1655 | Two- and Three-Terminal Resistive Switches: Nanometer-Scale Memristors and Memistors. 2011 , 21, 2660-2665 | 64 |
| 1654 | Memristor MOS Content Addressable Memory (MCAM): Hybrid Architecture for Future High Performance Search Engines. 2011 , 19, 1407-1417 | 169 |
| 1653 | Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. 2011 , 1, 032141 | 3 |
| 1652 | Dynamical properties of electrical circuits with fully nonlinear memristors. 2011 , 12, 3674-3686 | 13 |
| 1651 | Memory materials: a unifying description. 2011 , 14, 584-591 | 63 |

| 1650 | . 2011 , 44, 21-28 | 65 |
|------|--|-----|
| 1649 | Field Programmable Stateful Logic Array. 2011 , 30, 1800-1813 | 47 |
| 1648 | Reconfigurable Stateful nor Gate for Large-Scale Logic-Array Integrations. 2011 , 58, 442-446 | 65 |
| 1647 | . 2011 , 58, 1809-1812 | 47 |
| 1646 | A Versatile Memristor Model With Nonlinear Dopant Kinetics. 2011 , 58, 3099-3105 | 302 |
| 1645 | Memory effects in complex materials and nanoscale systems. 2011 , 60, 145-227 | 567 |
| 1644 | MEMRISTOR HAMILTONIAN CIRCUITS. 2011 , 21, 2395-2425 | 39 |
| 1643 | PSPICE modeling of meminductor. 2011 , 66, 129-137 | 49 |
| 1642 | Resistance switching memories are memristors. 2011 , 102, 765-783 | 961 |
| 1641 | Metal/TiO2 interfaces for memristive switches. 2011 , 102, 785-789 | 128 |
| 1640 | Intrinsic constrains on thermally-assisted memristive switching. 2011 , 102, 851-855 | 24 |
| 1639 | Feedback write scheme for memristive switching devices. 2011 , 102, 973-982 | 63 |
| 1638 | Nanoscale resistive switches: devices, fabrication and integration. 2011 , 102, 955-965 | 17 |
| 1637 | Synaptic behaviors and modeling of a metal oxide memristive device. 2011 , 102, 857-863 | 271 |
| 1636 | Chaotic memristor. 2011 , 102, 885-889 | 46 |
| 1635 | An ionic bottle for high-speed, long-retention memristive devices. 2011 , 102, 1033-1036 | 6 |
| 1634 | New Insight on Bio-sensing by Nano-fabricated Memristors. 2011 , 1, 1-3 | 38 |
| 1633 | From foundational issues in artificial intelligence to intelligent memristive nano-devices. 2011 , 2, 75-87 | 5 |

| 1632 | Dynamics analysis of chaotic circuit with two memristors. 2011 , 54, 2180-2187 | 46 |
|------|---|-----|
| 1631 | An analogue model of the memristor. 2011 , 24, 400-408 | 66 |
| 1630 | Origin of the Ultra-nonlinear Switching Kinetics in Oxide-Based Resistive Switches. 2011 , 21, 4487-4492 | 267 |
| 1629 | Coexistence of memristance and negative differential resistance in a nanoscale metal-oxide-metal system. 2011 , 23, 1730-3 | 91 |
| 1628 | Anatomy of a nanoscale conduction channel reveals the mechanism of a high-performance memristor. 2011 , 23, 5633-40 | 338 |
| 1627 | Analysis of memory property on the memristor based on the current and constant of integration. 2011 , | |
| 1626 | Stateful logic pipeline architecture. 2011 , | 15 |
| 1625 | Review of stability properties of neural plasticity rules for implementation on memristive neuromorphic hardware. 2011 , | 4 |
| 1624 | Class of all i-v dynamics for memristive elements in pattern recognition systems. 2011, | 6 |
| 1623 | Metal-insulator transition and electrically driven memristive characteristics of SmNiO3 thin films. 2011 , 98, 012105 | 25 |
| 1622 | Two-fold singularity in nonsmooth electrical systems. 2011 , | 8 |
| 1621 | Memristive model of electro-osmosis in skin. 2011 , 83, 031916 | 40 |
| 1620 | . 2011, | 7 |
| 1619 | Improved reliability of magnetic field programmable gate arrays through the use of memristive tunnel junctions. 2011 , 110, 096105 | 6 |
| 1618 | A Nano-Structure Memristor and Key Manufacture Technologies. 2011 , 474-476, 1029-1032 | |
| 1617 | Emulation of floating memcapacitors and meminductors using current conveyors. 2011 , 47, 243 | 96 |
| 1616 | Study on Fabrication Pt Nanowires for Memristor. 2011 , 58-60, 513-517 | |
| 1615 | Ion motion and electrochemistry in nanostructures. 2011 , 36, 914-920 | 6 |

| 1614 | Memristance View of Piezoelectricity. 2011 , 11, 2514-2517 | 1 |
|------|--|-----|
| 1613 | MEMRISTIVE EXCITABLE CELLULAR AUTOMATA. 2011 , 21, 3083-3102 | 9 |
| 1612 | EXPLICIT ODE REDUCTION OF MEMRISTIVE SYSTEMS. 2011 , 21, 917-930 | 9 |
| 1611 | Modelling of calcium ion (Ca+2) conductance in nerve membrane protein channel as memristive circuit element. 2011 , 47, 1361-1363 | 3 |
| 1610 | Programmable analogue circuits with multilevel memristive device. 2012 , 48, 1415 | 2 |
| 1609 | Analogue-to-digital and digital-to-analogue conversion with memristive devices. 2012 , 48, 73 | 15 |
| 1608 | Memristive diode bridge with LCR filter. 2012 , 48, 824 | 131 |
| 1607 | An Expanded HP Memristor Model for Memristive Neural Network. 2012 , 647-653 | 1 |
| 1606 | Programmable Frequency Multivibrator Based on Memristor. 2012, | |
| 1605 | Second and higher harmonics generation with memristive systems. 2012 , 100, 133109 | 15 |
| 1604 | Patterns of conductivity in excitable automata with updatable intervals of excitations. 2012 , 86, 056105 | 2 |
| 1603 | SPICE modeling of memristors with multilevel resistance states. 2012 , 21, 098901 | 24 |
| 1602 | Aging process of unipolar resistive switching in microscale cylindrical Fe-base alloy/TiO2/Au-cells. 2012 , 112, 034507 | 2 |
| 1601 | Memristive computing- multiplication and correlation. 2012, | 5 |
| 1600 | Fourier Response of a Memristor: Generation of High Harmonics With Increasing Weights. 2012 , 59, 830-834 | 8 |
| 1599 | Effect of hydrogen/deuterium incorporation on electroforming voltage of SiOx resistive random access memory. 2012 , 101, 183505 | 19 |
| 1598 | Complex dynamical behaviors analysis of a voltage-controlled memristive system. 2012, | |
| 1597 | Simulation of memristor crossbar structure on GPU platform. 2012 , | 3 |

| 1596 | PHENOMENOLOGY OF RETAINED REFRACTORINESS: ON SEMI-MEMRISTIVE DISCRETE MEDIA. 2012 , 22, 1230036 | | 8 |
|------|---|------|-----|
| 1595 | Resistive switching phenomena in thin films: Materials, devices, and applications. 2012 , 37, 108-114 | | 121 |
| 1594 | . 2012, | | 30 |
| 1593 | Signals generated in memristive circuits. 2012 , 1, 48-57 | | 1 |
| 1592 | A novel elementary memristive system. 2012, | | 1 |
| 1591 | Memristive port-Hamiltonian control: path-dependent damping injection in control of mechanical systems* *Arnau Dfia-Cerezo was partially supported by the Spanish government research project DPI2010-15110 2012 , 45, 167-172 | | 2 |
| 1590 | AFM-utilizing approach to search for new oxide materials for perspective applications in memristive devices. 2012 , 58, 20102 | | 4 |
| 1589 | Memristor based-elements for chaotic circuits. 2012 , 3, 336-356 | | 8 |
| 1588 | Neural Synaptic Weighting With a Pulse-Based Memristor Circuit. 2012 , 59, 148-158 | | 254 |
| 1587 | Cost-effective printed memristor fabrication and analysis. 2012, | | 1 |
| 1586 | Port-Hamiltonian Formulation of Systems With Memory. <i>Proceedings of the IEEE</i> , 2012 , 100, 1928-1937 | 14.3 | 21 |
| 1585 | Memristor Bridge Synapses. <i>Proceedings of the IEEE</i> , 2012 , 100, 2061-2070 | 14.3 | 186 |
| 1584 | Memistor Is Not Memristor [Express Letters]. 2012 , 12, 75-78 | | 14 |
| 1583 | The Quantum Point-Contact Memristor. 2012 , 33, 1474-1476 | | 41 |
| 1582 | . Proceedings of the IEEE, 2012 , 100, 1938-1950 | 14.3 | 16 |
| 1581 | . Proceedings of the IEEE, 2012 , 100, 2021-2032 | 14.3 | 40 |
| 1580 | Neuromorphic, Digital, and Quantum Computation With Memory Circuit Elements. <i>Proceedings of the IEEE</i> , 2012 , 100, 2071-2080 | 14.3 | 156 |
| 1579 | Memristive Device Fundamentals and Modeling: Applications to Circuits and Systems Simulation. <i>Proceedings of the IEEE</i> , 2012 , 100, 1991-2007 | 14.3 | 81 |

(2012-2012)

| 1578 | Scaling Potential of Local Redox Processes in Memristive SrTiO \$_{3}\$ Thin-Film Devices. Proceedings of the IEEE, 2012 , 100, 1979-1990 | 14.3 | 57 |
|----------------------|---|------|-----|
| 1577 | Memristors: Devices, Models, and Applications. <i>Proceedings of the IEEE</i> , 2012 , 100, 1911-1919 | 14.3 | 107 |
| 1576 | Memristive properties of single-molecule magnets. 2012 , 86, | | 17 |
| 1575 | On the simplest fractional-order memristor-based chaotic system. 2012 , 70, 1185-1197 | | 110 |
| 1574 | Memristive crossbar array with applications in image processing. 2012 , 55, 461-472 | | 44 |
| 1573 | Memristive-biosensors: A new detection method by using nanofabricated memristors. 2012 , 171-172, 449-457 | | 86 |
| 1572 | Global exponential stability of a class of memristor-based recurrent neural networks with time-varying delays. 2012 , 97, 149-154 | | 94 |
| 1571 | Towards Thermal Profiling in CMOS/Memristor Hybrid RRAM Architectures. 2012, | | 11 |
| 1570 | A novel elementary memristive system. 2012 , | | |
| 1569 | Nanoelectronics implementation of full adder with memristors. 2012 , | | Ο |
| 1568 | Existence of multiple operating points in memristive circuits. 2012 , | | 1 |
| | | | |
| 1567 | Electromagnetic and Laplace domain analysis of memristance and associative learning using memristive synapses modeled in SPICE. 2012 , | | 2 |
| | Electromagnetic and Laplace domain analysis of memristance and associative learning using memristive synapses modeled in SPICE. 2012, Emergence of competitive control in a memristor-based neuromorphic circuit. 2012, | | 2 |
| | memristive synapses modeled in SPICE. 2012 , | | |
| 1566 1565 | memristive synapses modeled in SPICE. 2012, Emergence of competitive control in a memristor-based neuromorphic circuit. 2012, Technology Time Machine 2012 - Paving the path for the future technology developments [includes | | |
| 1566 1565 | memristive synapses modeled in SPICE. 2012, Emergence of competitive control in a memristor-based neuromorphic circuit. 2012, Technology Time Machine 2012 - Paving the path for the future technology developments [includes 9 white papers]. 2012, | | 4 |
| 1566 1565 1564 | memristive synapses modeled in SPICE. 2012, Emergence of competitive control in a memristor-based neuromorphic circuit. 2012, Technology Time Machine 2012 - Paving the path for the future technology developments [includes 9 white papers]. 2012, Advanced memristive model of synapses with adaptive thresholds. 2012, | | 6 |

| 1560 | FPGA-based generation of autowaves in Memristive Cellular Neural Networks. 2012, | 1 |
|------|---|-----|
| 1559 | HODGKIN⊞UXLEY AXON IS MADE OF MEMRISTORS. 2012 , 22, 1230011 | 168 |
| 1558 | AUTOWAVES IN MEMRISTIVE CELLULAR NEURAL NETWORKS. 2012 , 22, 1230027 | 16 |
| 1557 | A brief analysis of the main SPICE models of the memristor. 2012 , | 1 |
| 1556 | Memristive analog arithmetic within cellular arrays. 2012, | 3 |
| 1555 | A ferroelectric memristor. 2012 , 11, 860-4 | 745 |
| 1554 | Multiterminal Memristive Nanowire Devices for Logic and Memory Applications: A Review. Proceedings of the IEEE, 2012, 100, 2008-2020 | 23 |
| 1553 | Memristor Emulator for Memristor Circuit Applications. 2012 , 59, 2422-2431 | 245 |
| 1552 | Analysis and Modeling of Internal State Variables for Dynamic Effects of Nonvolatile Memory Devices. 2012 , 59, 1906-1918 | 44 |
| 1551 | Memristors and memristive circuits - an overview. 2012 , | 7 |
| 1550 | A Novel Design and Modeling Paradigm for Memristor-Based Crossbar Circuits. 2012 , 11, 1151-1159 | 84 |
| 1549 | Phase-change processors, memristors and memflectors. 2012 , 249, 1978-1984 | 16 |
| 1548 | Memristor emulator with off-the-shelf solid state components for memristor application circuits. 2012 , | 1 |
| 1547 | Training artificial neural networks with memristive synapses: HSPICE-matlab co-simulation. 2012, | 2 |
| 1546 | A Boundary Condition-Based Approach to the Modeling of Memristor Nanostructures. 2012 , 59, 2713-2726 | 108 |
| 1545 | Effect of boundary on controlled memristor-based oscillator. 2012 , | 8 |
| 1544 | Why Are Memristor and Memistor Different Devices?. 2012 , 59, 2611-2618 | 10 |
| 1543 | A memristor based on current-induced domain-wall motion in a nanostructured giant magnetoresistance device. 2012 , 111, 07D303 | 20 |

(2012-2012)

| 1542 | resistive switching performance. 2012 , 61, 470-475 | 23 |
|------|---|-----|
| 1541 | Memristor based carry lookahead adder architectures. 2012, | 21 |
| 1540 | Persuading Computers to Act More Like Brains. 2012 , 37-61 | 4 |
| 1539 | Biologically-Inspired Electronics with Memory Circuit Elements. 2012 , 15-36 | 5 |
| 1538 | Computational Intelligence and Neuromorphic Computing Architectures. 2012, 77-88 | 4 |
| 1537 | Reconfigurable Memristor Fabrics for Heterogeneous Computing. 2012 , 89-106 | 5 |
| 1536 | Adaptive Resonance Theory Design in Mixed Memristive-Fuzzy Hardware. 2012, 133-153 | 4 |
| 1535 | Energy-Efficient Memristive Analog and Digital Electronics. 2012 , 181-209 | 5 |
| 1534 | Memristor Models for Pattern Recognition Systems. 2012 , 245-267 | 2 |
| 1533 | A voltage mode memristor bridge synaptic circuit with memristor emulators. 2012 , 12, 3587-604 | 55 |
| 1532 | Implementation of an analogue model of a memristor based on a light-dependent resistor. 2012 , 21, 108501 | 40 |
| 1531 | . 2012 , 12, 64-74 | 16 |
| 1530 | Resistive Programmable Through-Silicon Vias for Reconfigurable 3-D Fabrics. 2012 , 11, 8-11 | 19 |
| 1529 | Continuous electrical tuning of the chemical composition of TaO(x)-based memristors. 2012 , 6, 2312-8 | 100 |
| 1528 | A Simulation Method for Memristor Based Dopant Drift Model. 2012, 239-240, 915-920 | |
| 1527 | Electrode Materials for Ge2Sb2Te5-Based Memristors. 2012 , 41, 3417-3422 | 8 |
| 1526 | Design Exploration of Hybrid CMOS and Memristor Circuit by New Modified Nodal Analysis. 2012 , 20, 1012-1025 | 56 |
| 1525 | Mathematical modeling of a memristor device. 2012, | 10 |

On a New Three-dimensional Chaotic System with Only One Equilibrium Based on a Series Memristive Circuit. **2012**,

| 1523 N | Models of memristors for SPICE simulations. 2012 , | | 31 |
|--------|--|------|-----|
| | A functional hybrid memristor crossbar-array/CMOS system for data storage and neuromorphic applications. 2012 , 12, 389-95 | | 639 |
| 1521 A | An Analytical Approach for Memristive Nanoarchitectures. 2012 , 11, 374-385 | | 46 |
| 1520 F | Fractional-order circuit elements with memory. 2012 , | | 12 |
| 1519 N | Neuronal spike event generation by memristors. 2012 , | | 7 |
| 1518 N | MRL [Memristor Ratioed Logic. 2012 , | | 59 |
| | Sub-100 fJ and sub-nanosecond thermally driven threshold switching in niobium oxide crosspoint nanodevices. 2012 , 23, 215202 | | 226 |
| 1516 N | Memristor circuit for artificial synaptic weighting of pulse inputs. 2012 , | | 8 |
| 1515 T | ransient analysis of memristors. 2012 , | | 2 |
| 1514 N | Molecular-Scale Electronics. 2012 , 225-248 | | |
| 1513 T | wo centuries of memristors. 2012 , 11, 478-81 | | 250 |
| 1512 . | Proceedings of the IEEE, 2012 , 100, 1920-1927 | 14.3 | 180 |
| 1511 C | Observation of conducting filament growth in nanoscale resistive memories. 2012 , 3, 732 | | 782 |
| 1510 L | agrange formalism of memory circuit elements: Classical and quantum formulations. 2012 , 85, | | 20 |
| 1509 H | Hybrid modelling and emulation of mem-systems. 2012 , 25, 216-225 | | 29 |
| 1508 T | The tractability index of memristive circuits: branch-oriented and tree-based models. 2012 , 35, 1659-166 | 59 | 1 |
| 1507 N | Memristors With Flexible Electronic Applications. <i>Proceedings of the IEEE</i> , 2012 , 100, 1971-1978 | 14.3 | 26 |

(2013-2012)

| 1506 | Analysis of current loltage characteristics for memristive elements in pattern recognition systems. 2012 , 40, 1277-1320 | 70 |
|------|---|-----|
| 1505 | Thermophoresis/diffusion as a plausible mechanism for unipolar resistive switching in metalBxidefhetal memristors. 2012 , 107, 509-518 | 135 |
| 1504 | Non linear dynamics of memristor based 3rd order oscillatory system. 2012 , 43, 169-175 | 64 |
| 1503 | Extended Nodal Analysis. 2012 , 31, 89-100 | 4 |
| 1502 | Physics-based memristor models. 2013, | 21 |
| 1501 | A Compact SPICE Model of Unipolar Memristive Devices. 2013 , 12, 843-850 | 11 |
| 1500 | Associative Learning of Integrate-and-Fire Neurons with Memristor-Based Synapses. 2013, 38, 69-80 | 19 |
| 1499 | Two Element Chaotic and Hyperchaotic Circuits. 2013 , 1-10 | 3 |
| 1498 | . 2013 , 60, 3008-3021 | 326 |
| 1497 | Robust Hybrid Memristor-CMOS Memory: Modeling and Design. 2013 , 21, 2069-2079 | 49 |
| 1496 | Frequency-domain steady-state analysis of circuits with mem-elements. 2013, 74, 79-89 | 2 |
| 1495 | On the physical properties of memristive, memcapacitive and meminductive systems. 2013 , 24, 255201 | 75 |
| 1494 | The First Radios Were Made Using Memristors!. 2013 , 13, 8-16 | 12 |
| 1493 | A Proposal for Hybrid Memristor-CMOS Spiking Neuromorphic Learning Systems. 2013 , 13, 74-88 | 48 |
| 1492 | The Desired Memristor for Circuit Designers. 2013 , 13, 17-22 | 54 |
| 1491 | Memory models of adaptive behavior. 2013 , 24, 1437-48 | 27 |
| 1490 | Memristive device with threshold for synaptic application in Neuromorphic hardwares. 2013, | |
| 1489 | Spike-Timing-Dependent Plasticity Using Biologically Realistic Action Potentials and Low-Temperature Materials. 2013 , 12, 450-459 | 26 |

| 1488 | Associate learning and correcting in a memristive neural network. 2013 , 22, 1071-1076 | 38 |
|------------------------------|--|-----------------------------|
| 1487 | Rigid Body, Flexible Body, and Micro Electromechanical Systems. 2013 , 281-433 | |
| 1486 | Current self-complianced and self-rectifying resistive switching in Ag-electroded single Na-doped ZnO nanowires. 2013 , 5, 2651-4 | 37 |
| 1485 | Resistive switching in a negative temperature coefficient metal oxide memristive one-port. 2013 , 111, 1045-1049 | 3 |
| 1484 | Utilizing NDR effect to reduce switching threshold variations in memristive devices. 2013 , 111, 199-202 | 8 |
| 1483 | Application of Memristor-Based Controller for Loop Filter Design in Charge-Pump Phase-Locked Loops. 2013 , 32, 1013-1023 | 29 |
| 1482 | Synaptic memcapacitor bridge synapses. 2013 , 122, 370-374 | 18 |
| 1481 | Nanoscale resistive switching devices: mechanisms and modeling. 2013 , 5, 10076-92 | 197 |
| 1480 | A Simple Model of Double-Loop Hysteresis Behavior in Memristive Elements. 2013 , 60, 487-491 | 83 |
| | | |
| 1479 | Radiation Effects on LiNbO \$_2\$ Memristors for Neuromorphic Computing Applications. 2013 , 60, 4555-4562 | 12 |
| | Radiation Effects on LiNbO \$_2\$ Memristors for Neuromorphic Computing Applications. 2013 , 60, 4555-4562 Composite Behavior of Multiple Memristor Circuits. 2013 , 60, 2688-2700 | 12 48 |
| 1478 | | |
| 1478 | Composite Behavior of Multiple Memristor Circuits. 2013 , 60, 2688-2700 Memristor, Hodgkin-Huxley, and edge of chaos. 2013 , 24, 383001 | 48 |
| 1478 1477 | Composite Behavior of Multiple Memristor Circuits. 2013 , 60, 2688-2700 Memristor, Hodgkin-Huxley, and edge of chaos. 2013 , 24, 383001 | 48 |
| 1478 1477 1476 | Composite Behavior of Multiple Memristor Circuits. 2013, 60, 2688-2700 Memristor, Hodgkin-Huxley, and edge of chaos. 2013, 24, 383001 Quantized conductance and switching in percolating nanoparticle films. 2013, 111, 136808 Analog memristors based on thickening/thinning of Ag nanofilaments in amorphous manganite | 48 132 26 |
| 1478 1477 1476 | Composite Behavior of Multiple Memristor Circuits. 2013, 60, 2688-2700 Memristor, Hodgkin-Huxley, and edge of chaos. 2013, 24, 383001 Quantized conductance and switching in percolating nanoparticle films. 2013, 111, 136808 Analog memristors based on thickening/thinning of Ag nanofilaments in amorphous manganite thin films. 2013, 5, 11258-64 | 48 132 26 71 |
| 1478 1477 1476 1475 | Composite Behavior of Multiple Memristor Circuits. 2013, 60, 2688-2700 Memristor, Hodgkin-Huxley, and edge of chaos. 2013, 24, 383001 Quantized conductance and switching in percolating nanoparticle films. 2013, 111, 136808 Analog memristors based on thickening/thinning of Ag nanofilaments in amorphous manganite thin films. 2013, 5, 11258-64 Electrochemical System with Memimpedance Properties. 2013, 117, 24943-24947 | 48 132 26 71 36 |

| 1470 | Frequency characterization of memristive devices. 2013 , | 4 |
|------|--|------|
| 1469 | A Review on Memristive Stateful Logic. 2013 , 791-793, 1845-1849 | |
| 1468 | Memristor-based neural circuits. 2013, | 5 |
| 1467 | Interference and memory capacity effects in memristive systems. 2013, 102, 083106 | 15 |
| 1466 | Memristor measurements and simulations. 2013, | 2 |
| 1465 | Critical role of initial condition in the dynamics of memristive systems: Orbital narrowing revisited. 2013 , | |
| 1464 | Design of a Practical Memcapacitor Emulator Without Grounded Restriction. 2013 , 60, 207-211 | 62 |
| 1463 | Memristor macromodel and its application to neuronal spike generation. 2013, | 2 |
| 1462 | Building Neuromorphic Circuits with Memristive Devices. 2013 , 13, 56-73 | 76 |
| 1461 | Syntheses of a PSPICE model of a titanium-dioxide memristor and Wien memristor generator. 2013 , | |
| 1460 | Observation of spontaneous bursting spike patterns in simple three memristor circuits. 2013, | 1 |
| 1459 | Amplitude characterization of memristive devices. 2013, | 2 |
| 1458 | Modeling analysis and equivalent circuit realization of a flux-controlled memristor. 2013, | 1 |
| 1457 | Memory diodes with nonzero crossing. 2013 , 102, 022902 | 19 |
| 1456 | Memristive devices for computing. 2013 , 8, 13-24 | 2406 |
| 1455 | A scalable neuristor built with Mott memristors. 2013 , 12, 114-7 | 614 |
| 1454 | Fabrication of printed memory device having zinc-oxide active nano-layer and investigation of resistive switching. 2013 , 13, 90-96 | 39 |
| 1453 | Nucleation and growth phenomena in nanosized electrochemical systems for resistive switching memories. 2013 , 17, 365-371 | 75 |

| 1452 | Memristive port-Hamiltonian control: Path-dependent damping injection in control of mechanical systems. 2013 , 19, 454-460 | 2 |
|------|---|-----|
| 1451 | Memristor-based filtering applications. 2013, | 27 |
| 1450 | Towards artificial neurons and synapses: a materials point of view. 2013 , 3, 3169 | 135 |
| 1449 | Memristor-based neural networks. 2013 , 46, 093001 | 214 |
| 1448 | TEAM: ThrEshold Adaptive Memristor Model. 2013 , 60, 211-221 | 407 |
| 1447 | Programmable CMOS/Memristor Threshold Logic. 2013 , 12, 115-119 | 114 |
| 1446 | . 2013, | 4 |
| 1445 | Nanobatteries in redox-based resistive switches require extension of memristor theory. 2013 , 4, 1771 | 395 |
| 1444 | Cation-based resistance change memory. 2013 , 46, 074005 | 147 |
| 1443 | . 2013 , 60, 1241-1249 | 40 |
| 1442 | DUALITY OF MEMRISTOR CIRCUITS. 2013, 23, 1330001 | 27 |
| 1441 | . 2013 , 60, 2701-2708 | 37 |
| 1440 | SIMPLE MEMRISTIVE TIME-DELAY CHAOTIC SYSTEMS. 2013, 23, 1350073 | 34 |
| 1439 | Applications of Multi-Terminal Memristive Devices: A Review. 2013 , 13, 23-41 | 30 |
| 1438 | Improved memristor-based relaxation oscillator. 2013 , 44, 814-820 | 28 |
| 1437 | Compound synchronization of four memristor chaotic oscillator systems and secure communication. 2013 , 23, 013140 | 175 |
| 1436 | Memristor Model Comparison. 2013 , 13, 89-105 | 116 |
| 1435 | . 2013 , 13, 42-55 | 32 |

| 1434 | Fractional generalization of memristor and higher order elements. 2013 , 18, 264-275 | 59 |
|------|---|-----|
| 1433 | Decay of persistent spin helix due to the spin relaxation at boundaries. 2013 , 87, | 3 |
| 1432 | Some fingerprints of ideal memristors. 2013, | 26 |
| 1431 | A supervised spiking time dependant plasticity network based on memristors. 2013, | 7 |
| 1430 | Analysis of the mutual inductive and capacitive connections and tolerances of memristors parameters of a memristor memory matrix. 2013 , | 5 |
| 1429 | State Dynamics and Modeling of Tantalum Oxide Memristors. 2013 , 60, 2194-2202 | 120 |
| 1428 | Memristive devices in computing system. 2013 , 9, 1-20 | 38 |
| 1427 | Complementary Resistive Switch (CRS) based smart sensor search engine. 2013 , | 1 |
| 1426 | The conductive mechanisms of a titanium oxide memristor with dopant drift and a tunnel barrier. 2013 , 22, 088502 | 8 |
| 1425 | Phase transitions enable computational universality in neuristor-based cellular automata. 2013 , 24, 384002 | 37 |
| 1424 | Complex dynamics in neuromorphic memristor circuits. 2013, | 2 |
| 1423 | A generic simulator for large networks of memristive elements. 2013 , 24, 384007 | 4 |
| 1422 | Extensional framework for pinched hysteresis systems. 2013 , 59, 438 | |
| 1421 | Effect of Electrode Types on the Resistive Switching Behavior of Titania Thin Films. 2013 , 393, 74-78 | 3 |
| 1420 | Coexistence of nonvolatility and volatility in Pt/Nb-doped SrTiO3/In memristive devices. 2013, 46, 495111 | 4 |
| 1419 | SPICE Mutator Model for Transforming Memristor into Meminductor. 2013 , 2013, 1-5 | 4 |
| 1418 | Hysteretic Current-Voltage Characteristics and Memristive Behaviors in AgI Nano-Particles Assembly. 2013 , 2, N6-N10 | 5 |
| 1417 | The voltagedurrent relationship and equivalent circuit implementation of parallel flux-controlled memristive circuits. 2013 , 22, 068401 | 8 |

| 1416 | Inkjet-Printed Memristor: Printing Process Development. 2013 , 52, 05DB21 | 6 |
|------|---|----|
| 1415 | Research on Memristor Oriented to Resistive RAM. 2013 , 427-429, 974-977 | 1 |
| 1414 | SPICE modeling of flux-controlled unipolar memristive devices. 2013 , 22, 078901 | 7 |
| 1413 | Computing Areas of Pinched Hysteresis Loops of Mem-Systems in OrCAD PSPICE. 2013 , 278-280, 1081-1090 | 6 |
| 1412 | The design and simulation of a titanium oxide memristor-based programmable analog filter in a simulation program with integrated circuit emphasis. 2013 , 22, 088501 | 16 |
| 1411 | Nonvolatile Resistive Switching in Pt/LaAlO3/SrTiO3 Heterostructures. 2013 , 3, | 43 |
| 1410 | A physical model of switching dynamics in tantalum oxide memristive devices. 2013 , 102, 223502 | 59 |
| 1409 | Unified modeling for memristive devices based on charge-flux constitutive relationships. 2013, | 2 |
| 1408 | Chaotic behaviour in a three element memristor based circuit using fourth order polynomial and PWL nonlinearity. 2013 , | 1 |
| 1407 | Complex dynamics and scale invariance of one-dimensional memristive networks. 2013 , 87, 022116 | 21 |
| 1406 | Spice models of memristive devices forming a model of Hodgkin-Huxley axon. 2013, | O |
| 1405 | Changing the state of a memristive system with white noise. 2013 , 87, 042103 | 20 |
| 1404 | Synthesis and Characterization of ZnO Thin Film Memristor. 2013 , 701, 172-175 | 8 |
| 1403 | On the analog computational characteristics of memristive networks. 2013 , | 9 |
| 1402 | Pulse-induced resistive and capacitive switching in TiO2 thin film devices. 2013 , 103, 233513 | 29 |
| 1401 | Self-organization and solution of shortest-path optimization problems with memristive networks. 2013 , 88, 013305 | 35 |
| 1400 | A memristor oscillator based on a twin-T network. 2013 , 22, 040502 | 38 |
| 1399 | Memristive Properties of Transparent \$({rm La},,{rm Sr}){rm MnO}_{3}\$ Thin Films Deposited on ITO Glass at Room Temperature. 2013 , 34, 1506-1508 | 9 |

| 1398 | MEMRISTOR MODELS IN A CHAOTIC NEURAL CIRCUIT. 2013 , 23, 1350052 | 18 |
|--------------------------------------|---|-----------------------|
| 1397 | Local temperature redistribution and structural transition during joule-heating-driven conductance switching in VO2. 2013 , 25, 6128-32 | 139 |
| 1396 | A meminductive circuit based on floating memristive emulator. 2013, | 15 |
| 1395 | Vacancy breathing by grain boundaries mechanism of memristive switching in polycrystalline oxides. 2013 , 3, 167-170 | 9 |
| 1394 | Accurate age counter for wear leveling on non-volatile based main memory. 2013, 17, 543-564 | 3 |
| 1393 | Multi-level programming of memristor in nanocrossbar. 2013 , 10, 20130013-20130013 | 4 |
| 1392 | [From the Guest Editors]. 2013 , 13, 4-6 | |
| 1391 | Multilayer memristive/memcapacitive devices with engineered conduction fronts. 2013, 62, 30102 | 2 |
| 1390 | Characterization of electroforming-free titanium dioxide memristors. 2013 , 4, 467-73 | 54 |
| | | |
| 1389 | A memristive hyperchaotic system without equilibrium. 2014 , 2014, 368986 | 38 |
| 1389 1388 | A memristive hyperchaotic system without equilibrium. 2014 , 2014, 368986 Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014 , 23, 038404 | 38 |
| 1388 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive | |
| 1388 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014 , 23, 038404 | 1 |
| 1388 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014 , 23, 038404 If its pinched its a memristor. 2014 , 29, 104001 | 1 290 |
| 1388 1387 1386 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014 , 23, 038404 If its pinched its a memristor. 2014 , 29, 104001 TiO2-based memristors and ReRAM: materials, mechanisms and models (a review). 2014 , 29, 104004 Mutator for transferring a memristor emulator into meminductive and memcapacitive circuits. | 1 290 102 |
| 1388 1387 1386 1385 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014, 23, 038404 If its pinched its a memristor. 2014, 29, 104001 TiO2-based memristors and ReRAM: materials, mechanisms and models (a review). 2014, 29, 104004 Mutator for transferring a memristor emulator into meminductive and memcapacitive circuits. 2014, 23, 070702 Mapping equivalent approach to analysis and realization of memristor-based dynamical circuit. | 1 290 102 22 |
| 1388 1387 1386 1385 1384 | Analysis and modeling of resistive switching mechanism oriented to fault tolerance of resistive memory based on memristor. 2014, 23, 038404 If itB pinched itB a memristor. 2014, 29, 104001 TiO2-based memristors and ReRAM: materials, mechanisms and models (a review). 2014, 29, 104004 Mutator for transferring a memristor emulator into meminductive and memcapacitive circuits. 2014, 23, 070702 Mapping equivalent approach to analysis and realization of memristor-based dynamical circuit. 2014, 23, 070503 | 1 290 102 22 |

| 1380 | Secure communication using memristor based chaotic circuit. 2014, | 5 |
|------|---|----|
| 1379 | Memristor Based van der Pol Oscillation Circuit. 2014 , 24, 1450154 | 10 |
| 1378 | Global Phase Portraits of Memristor Oscillators. 2014 , 24, 1450152 | 9 |
| 1377 | FIRST-ORDER MEMRISTOR © APACITOR FILTER CIRCUITS EMPLOYING HP MEMRISTOR. 2014 , 23, 1450116 | 13 |
| 1376 | The short-term memory (d.c. response) of the memristor demonstrates the causes of the memristor frequency effect. 2014 , | 4 |
| 1375 | A new memristor model for content addressable memory. 2014 , | |
| 1374 | Memristor for Neuromorphic Applications: Models and Circuit Implementations. 2014, 379-403 | 4 |
| 1373 | Memcapacitive neural networks. 2014 , 50, 141-143 | 21 |
| 1372 | Exploring factored forms for sequential implication logic synthesis. 2014, | |
| 1371 | Memristive Devices: Switching Effects, Modeling, and Applications. 2014 , 195-221 | 4 |
| 1370 | Generation and Nonlinear Dynamical Analyses of Fractional-Order Memristor-Based Lorenz Systems. 2014 , 16, 6240-6253 | 25 |
| 1369 | Spike-Timing-Dependent-Plasticity in Hybrid Memristive-CMOS Spiking Neuromorphic Systems. 2014 , 353-377 | 1 |
| 1368 | Nanoscale computing architectures based on resistive switching devices. 2014, | |
| 1367 | Memristors as non-linear behavioral models for passive inter-modulation simulation. 2014, | |
| 1366 | A heterogeneous computing system with memristor-based neuromorphic accelerators. 2014, | |
| 1365 | The Memory-Conservation Theory of Memristance. 2014 , | 6 |
| 1364 | On-chip supervised learning rule for ultra high density neural crossbar using memristor for synapse and neuron. 2014 , | 1 |
| 1363 | Memristor-based devices for sensing. 2014 , | 16 |

| 1362 | Resistive switching characteristics of indium-tin-oxide thin film devices. 2014 , 211, 1194-1199 | 3 |
|------|--|----|
| 1361 | A Native Stochastic Computing Architecture Enabled by Memristors. 2014 , 13, 283-293 | 67 |
| 1360 | An adjustable memristor model and its application in small-world neural networks. 2014, | 5 |
| 1359 | Memristor-capacitor based startup circuit for voltage reference generators. 2014 , | 1 |
| 1358 | TinO2nd Magnli phases studied using density functional theory. 2014 , 90, | 26 |
| 1357 | Complete periodic adaptive antisynchronization of memristor-based neural networks with mixed time-varying delays. 2014 , 92, 1337-1349 | 12 |
| 1356 | Nonlinear space charge dynamics in mixed ionic-electronic conductors: Resistive switching and ferroelectric-like hysteresis of electromechanical response. 2014 , 116, 066808 | 24 |
| 1355 | Emergent spiking in non-ideal memristor networks. 2014 , 45, 1401-1415 | 15 |
| 1354 | Low power high speed ternary content addressable memory design using MOSFET and memristors. 2014 , | 4 |
| 1353 | Implementation of complementary resistive switch for image matching through back-to-back connection of ITO/TiO2½/TiO2/ITO memristors. 2014 , 211, 1933-1940 | 3 |
| 1352 | Memristors as non-linear behavioral models for passive inter-modulation simulation. 2014, | |
| 1351 | The Art and Science of Constructing a Memristor Model. 2014 , 93-104 | 4 |
| 1350 | Memristor-based ternary content addressable memory (mTCAM) for data-intensive computing. 2014 , 29, 104010 | 19 |
| 1349 | The Neuro-Fuzzy Computing System With the Capacity of Implementation on a Memristor Crossbar and Optimization-Free Hardware Training. 2014 , 22, 1272-1287 | 24 |
| 1348 | Spiking in Memristor Networks. 2014 , 365-387 | 10 |
| 1347 | A Novel Memristor Chaotic Circuit Based on CFOA. 2014 , 651-653, 603-606 | 1 |
| 1346 | If It日 Pinched It日 a Memristor. 2014 , 17-90 | 41 |
| 1345 | Memristor Device Engineering and CMOS Integration for Reconfigurable Logic Applications. 2014 , 327-351 | 3 |

| 1344 | Memristor Bridge-Based Artificial Neural Weighting Circuit. 2014 , 249-265 | 2 |
|------------------------------|--|---------------------------|
| 1343 | Coherer is the elusive memristor. 2014 , | 10 |
| 1342 | Expanded HP memristor model and simulation in STDP learning. 2014 , 24, 51-57 | 2 |
| 1341 | A family of memristor-based reactance-less oscillators. 2014 , 42, 1103-1122 | 39 |
| 1340 | An electronic implementation of amoeba anticipation. 2014 , 114, 565-570 | 9 |
| 1339 | Two Memristor SPICE Models and Their Applications in Microwave Devices. 2014 , 13, 607-616 | 31 |
| 1338 | Memristor-based combinational circuits: A design methodology for encoders/decoders. 2014 , 45, 59-70 | 31 |
| 1337 | Memristive biosensors under varying humidity conditions. 2014 , 13, 19-30 | 22 |
| 1336 | Compact modelling of ferroelectric tunnel memristor and its use for neuromorphic simulation. 2014 , 104, 053505 | 25 |
| 1335 | Memristor: Part III he Underlying Physics and Conduction Mechanism. 2014 , 61, 1054-1061 | 17 |
| | | |
| 1334 | Dynamics of Memristor Circuits. 2014 , 24, 1430015 | 27 |
| 1334 | Dynamics of Memristor Circuits. 2014 , 24, 1430015 Macromodeling of the memristor using piecewise volterra series. 2014 , 45, 325-329 | |
| | | 27 |
| 1333 | Macromodeling of the memristor using piecewise volterra series. 2014 , 45, 325-329 Realizing a family of transition-metal-oxide memristors based on volatile resistive switching at a | 27 6 |
| 1333 | Macromodeling of the memristor using piecewise volterra series. 2014 , 45, 325-329 Realizing a family of transition-metal-oxide memristors based on volatile resistive switching at a rectifying metal/oxide interface. 2014 , 47, 045108 Exponential synchronization of memristive Cohen-Grossberg neural networks with mixed delays. | 27 6 4 |
| 1333 1332 1331 | Macromodeling of the memristor using piecewise volterra series. 2014, 45, 325-329 Realizing a family of transition-metal-oxide memristors based on volatile resistive switching at a rectifying metal/oxide interface. 2014, 47, 045108 Exponential synchronization of memristive Cohen-Grossberg neural networks with mixed delays. 2014, 8, 239-49 | 27 6 4 148 |
| 1333 1332 1331 1330 | Macromodeling of the memristor using piecewise volterra series. 2014, 45, 325-329 Realizing a family of transition-metal-oxide memristors based on volatile resistive switching at a rectifying metal/oxide interface. 2014, 47, 045108 Exponential synchronization of memristive Cohen-Grossberg neural networks with mixed delays. 2014, 8, 239-49 Boolean Logic Operations and Computing Circuits Based on Memristors. 2014, 61, 972-976 | 27 6 4 148 49 |

1326 Memristor applied in delay locked loop for high lock speed and wide frequency range. **2014**,

| 1325 Fingerprints of a memristor. 2014 , | O |
|--|-----|
| 1324 Memristive multistate pipeline register. 2014 , | |
| Implementation of memristive neural networks with spike-rate-dependent plasticity synapses. 2014, | 10 |
| 1322 MAGICMemristor-Aided Logic. 2014 , 61, 895-899 | 341 |
| 1321 Memfractance: A Mathematical Paradigm for Circuit Elements with Memory. 2014 , 24, 1430023 | 60 |
| 1320 Robust learning approach for neuro-inspired nanoscale crossbar architecture. 2014 , 10, 1-20 | 23 |
| 1319 Memristor modelling. 2014 , | 7 |
| Simulation and comparison of two sequential logic-in-memory approaches using a dynamic electrochemical metallization cell model. 2014 , 45, 1416-1428 | 14 |
| 1317 On memristor ideality and reciprocity. 2014 , 45, 1363-1371 | 15 |
| On-chip supervised learning rule for ultra high density neural crossbar using memristor for synapse and neuron. 2014 , | 5 |
| 1315 Memristive behaviors in Pt/BaTiO3/Nb:SrTiO3 ferroelectric tunnel junctions. 2014 , 105, 052910 | 35 |
| 1314 Corrected and accurate Verilog-A for linear dopant drift model of memristors. 2014 , | 9 |
| 1313 Gas Discharge Lamps Are Volatile Memristors. 2014 , 61, 2066-2073 | 23 |
| 1312 Digital arithmetic circuit and elimination of improper shutdown of PC using memristor. 2014 , | |
| 1311 Dynamic computing random access memory. 2014 , 25, 285201 | 28 |
| 1310 Hybrid CMOS - Memristor based configurable logic block design. 2014 , | 1 |
| 1309 Temperature Sensing RRAM Architecture for 3-D ICs. 2014 , 22, 878-887 | 2 |

| 1308 | How Can the Hysteresis Loop of the Ideal Memristor Be Pinched?. 2014 , 61, 491-495 | 14 |
|------|---|----|
| 1307 | Nature of the Resistive Switching Phenomena in TiO2 and SrTiO3. 2014 , 353-559 | 46 |
| 1306 | Applicability of Well-Established Memristive Models for Simulations of Resistive Switching Devices. 2014 , 61, 2402-2410 | 66 |
| 1305 | Logic operations in memory using a memristive Akers array. 2014 , 45, 1429-1437 | 53 |
| 1304 | Memristor to control delay of delay element. 2014, | |
| 1303 | Realization of the meminductor. 2014 , 8, 10043-7 | 26 |
| 1302 | Comparative review of the TiO2 and the spintronic memristor devices. 2014 , | 2 |
| 1301 | Mutator-Based Meminductor Emulator for Circuit Applications. 2014 , 33, 2363-2383 | 31 |
| 1300 | Memristor-based chaotic neural networks for associative memory. 2014 , 25, 1437-1445 | 21 |
| 1299 | On hyperchaos in a small memristive neural network. 2014 , 78, 1087-1099 | 66 |
| 1298 | Brains Are Made of Memristors. 2014 , 14, 12-36 | 83 |
| 1297 | Origin of the OFF state variability in ReRAM cells. 2014 , 47, 145102 | 20 |
| 1296 | Self-powered electrochemical memristor based on a biofuel celltowards memristors integrated with biocomputing systems. 2014 , 50, 4816-9 | 34 |
| 1295 | Stability of delayed memristive neural networks with time-varying impulses. 2014 , 8, 429-36 | 36 |
| 1294 | . 2014 , 61, 1390-1399 | 8 |
| 1293 | A new DDCC based memristor emulator circuit and its applications. 2014 , 45, 282-287 | 98 |
| 1292 | Isothermal switching and detailed filament evolution in memristive systems. 2014 , 26, 4486-90 | 47 |
| | | |

| 1290 | Superconducting Memristors. 2014 , 2, | 25 |
|------|--|-----|
| 1289 | Memristor Multiport Readout: A Closed-Form Solution for Sneak Paths. 2014 , 13, 274-282 | 60 |
| 1288 | Complementary Resistive Switch-Based Smart Sensor Search Engine. 2014 , 14, 1639-1646 | 12 |
| 1287 | Memristor-Based Material Implication (IMPLY) Logic: Design Principles and Methodologies. 2014 , 22, 2054-2066 | 310 |
| 1286 | Memristive sensors for pH measure in dry conditions. 2014 , 624, 76-79 | 20 |
| 1285 | Polymer memristor for information storage and neuromorphic applications. 2014 , 1, 489 | 146 |
| 1284 | Bulk mixed ion electron conduction in amorphous gallium oxide causes memristive behaviour. 2014 , 5, 3473 | 99 |
| 1283 | Memristor Crossbar Architecture for Synchronous Neural Networks. 2014 , 61, 2390-2401 | 37 |
| 1282 | Memristor-based voltage-controlled relaxation oscillators. 2014 , 42, 1092-1102 | 31 |
| 1281 | Hyperchaos and horseshoe in a 4D memristive system with a line of equilibria and its implementation. 2014 , 42, 1172-1188 | 98 |
| 1280 | Redox-based Resistive Memory. 2014 , 137-161 | 3 |
| 1279 | Computer assisted proof of chaos in the Muthuswamy-Chua memristor circuit. 2014 , 5, 309-319 | |
| 1278 | A new simple emulator circuit for current controlled memristor. 2015, | 9 |
| 1277 | Low power differential three transistors two memristors based RRAM cell. 2015 , | 1 |
| 1276 | Memristor state-space embedding. 2015 , | |
| 1275 | Design of cellular neural network architecture using memristors. 2015, | |
| 1274 | DFT+U Simulation of the Ti4O7IIiO2 Interface. 2015 , 3, | 15 |
| 1273 | Switching synchronization in one-dimensional memristive networks. 2015 , 92, 052917 | 3 |

| 1272 | . 2015, | 1 |
|------|--|-----|
| 1271 | An Omnipotent Memristor Model with Controllable Window Functions. 2015, | 5 |
| 1270 | Resistive switching and diode properties of mesoscopic niobium oxide-based structures. 2015 , 79, 759-762 | 1 |
| 1269 | Offset reduction on memristor emulator circuits. 2015, | 3 |
| 1268 | Review of the missing mechanical element: Memdamper. 2015, | 2 |
| 1267 | Bioimpedance Measurements. 2015 , 2-1-2-32 | |
| 1266 | 7-Transistor 2-memristor based non-volatile static random access memory cell design. 2015, | 1 |
| 1265 | A novel window function approach for voltage controlled memristor. 2015 , | |
| 1264 | A novel memristor emulator based only on an exponential amplifier and CCII+. 2015, | 10 |
| 1263 | Exponential flux-controlled memristor model and its floating emulator. 2015 , 24, 118401 | 13 |
| 1262 | Biorealistic Implementation of Synaptic Functions with Oxide Memristors through Internal Ionic Dynamics. 2015 , 25, 4290-4299 | 270 |
| 1261 | Memristor-based random access memory: The delayed switching effect could revolutionize memory design. 2015 , | |
| 1260 | Composite behaviors of dual meminductor circuits. 2015 , 24, 110701 | 5 |
| 1259 | Switching mechanism for TiO 2 memristor and quantitative analysis of exponential model parameters. 2015 , 24, 088401 | 5 |
| 1258 | Low power application for nano scaled Memristor based 2:1 multiplexer. 2015 , | 4 |
| 1257 | Modeling of memristive and memcapacitive behaviors in metal-oxide junctions. 2015 , 2015, 910126 | 12 |
| 1256 | Plasticity in memristive devices for spiking neural networks. 2015 , 9, 51 | 148 |
| 1255 | Memristive operation mode of a site-controlled quantum dot floating gate transistor. 2015 , 106, 203501 | 12 |

(2015-2015)

| 1254 | device. 2015 , 38, 228-233 | 34 |
|------|--|-----|
| 1253 | A Theoretical Approach to Memristor Devices. 2015 , 5, 123-132 | 68 |
| 1252 | Characterization and Modeling of Nonfilamentary Ta/TaOx/TiO2/Ti Analog Synaptic Device. 2015 , 5, 10150 | 122 |
| 1251 | A Memristive System Based on an Electrostatic Loudspeaker. 2015 , 383-394 | |
| 1250 | On-Chip Universal Supervised Learning Methods for Neuro-Inspired Block of Memristive Nanodevices. 2015 , 11, 1-20 | 6 |
| 1249 | VTEAM: A General Model for Voltage-Controlled Memristors. 2015 , 62, 786-790 | 322 |
| 1248 | Optimisation and memristive response of sol-gel derived TiO2 thin films. 2015 , | 1 |
| 1247 | Massively Parallel Analog Computing: Ariadne∃ Thread Was Made of Memristors. 2015 , 1-1 | 8 |
| 1246 | On the usage of harmonic balance to simulate memristive devices and circuits. 2015 , | 1 |
| 1245 | Generalized rule of homothety of ideal memristors and their siblings. 2015, | 1 |
| 1244 | Quasi-Ideal Memory System. 2015 , 45, 1353-62 | 36 |
| 1243 | Design of PN sequence generator based on memristor oscillator. 2015 , | |
| 1242 | Dynamic analysis and passive control of the memristor-based Chua's circuit. 2015 , | |
| 1241 | Analog memristor based neuromorphic crossbar circuit for image recognition. 2015, | 5 |
| 1240 | Transfer characteristics and bandwidth limitation in a linear-drift memristor model. 2015, | 1 |
| 1239 | Class of memristors from cascade of static nonlinear two ports with dynamic one-ports. 2015 , | |
| 1238 | Controllability of multi-level states in memristive device models using a transistor as current compliance during SET operation. 2015 , | |
| 1237 | Electromechanical Emulator of Memristive Systems and Devices. 2015 , 62, 3678-3684 | 7 |

| 1236 | Modern chemical synthesis methods towards low-dimensional phase change structures in the GeBbIIe material system. 2015 , 61, 27-45 | 39 |
|------|---|-----|
| 1235 | New metastable phases in a trititanium pentoxide compound. 2015 , 2, 126101 | 3 |
| 1234 | . 2015, | 3 |
| 1233 | Classification of mem-devices. 2015 , | 1 |
| 1232 | New memristor emulator circuit using OTAs and CCIIs. 2015, | 7 |
| 1231 | Design of digital functional blocks using hybrid memristor structures. 2015, | 4 |
| 1230 | "Modeling memristive biosensors". 2015 , | |
| 1229 | Equivalent circuit modeling of the bistable conduction characteristics in electroformed thin dielectric films. 2015 , 55, 1-14 | 16 |
| 1228 | (Co)content in Circuits With Memristive Elements. 2015 , 62, 488-496 | 5 |
| 1227 | Understanding memristors and memcapacitors in engineering mechanics applications. 2015 , 80, 457-489 | 30 |
| 1226 | Low voltage two-state-variable memristor model of vacancy-drift resistive switches. 2015 , 119, 1-9 | 19 |
| 1225 | Phenomenological modeling of memristive devices. 2015 , 118, 779-786 | 33 |
| 1224 | Can bio-inspired information processing steps be realized as synthetic biochemical processes?. 2015 , 212, 219-228 | 10 |
| 1223 | FPAA/Memristor Hybrid Computing Infrastructure. 2015 , 62, 906-915 | 14 |
| 1222 | pth moment exponential stochastic synchronization of coupled memristor-based neural networks with mixed delays via delayed impulsive control. 2015 , 65, 80-91 | 113 |
| 1221 | Modeling the memristor with piecewise linear function. 2015 , 28, 96-106 | 6 |
| 1220 | Multistate Register Based on Resistive RAM. 2015 , 23, 1750-1759 | 8 |
| 1219 | What are Memristor, Memcapacitor, and Meminductor?. 2015 , 62, 402-406 | 28 |

| 1218 | Memristive devices based on graphene oxide. 2015 , 85, 383-396 | 103 |
|------|---|-----|
| 1217 | Enzyme-based logic systems interfaced with signal-responsive materials and electrodes. 2015 , 51, 3493-500 | 51 |
| 1216 | Towards Analog Memristive Controllers. 2015 , 62, 205-214 | 2 |
| 1215 | Multinomial based memristor modelling methodology for simulations and analysis. 2015 , 3, 1-12 | 2 |
| 1214 | Memristor-CMOS logic and digital computational components. 2015 , 46, 214-220 | 24 |
| 1213 | . 2015, | 4 |
| 1212 | Non-ideal memristors for a non-ideal world. 2015 , 212, 229-238 | 3 |
| 1211 | Overview of emerging memristor families from resistive memristor to spintronic memristor. 2015 , 26, 4618-4628 | 46 |
| 1210 | A memristor emulator as a replacement of a real memristor. 2015 , 30, 015007 | 39 |
| 1209 | A Novel Nondestructive Read/Write Circuit for Memristor-Based Memory Arrays. 2015 , 23, 2648-2656 | 28 |
| 1208 | Novel design for the odd-symmetric memristor from asymmetric switches. 2015 , 3, 2768-2772 | 6 |
| 1207 | Specification of one classical fingerprint of ideal memristor. 2015 , 46, 298-300 | 14 |
| 1206 | Slime Mould Memristors. 2015 , 5, 1-8 | 47 |
| 1205 | Memristor-based multilayer neural networks with online gradient descent training. 2015 , 26, 2408-21 | 160 |
| 1204 | . 2015 , 62, 891-898 | 48 |
| 1203 | Experimental demonstration of a second-order memristor and its ability to biorealistically implement synaptic plasticity. 2015 , 15, 2203-11 | 356 |
| 1202 | Imply logic based on TiO2 memristor model for computational circuits. 2015 , | |
| 1201 | Bipolar resistive switching from liquid helium to room temperature. 2015 , 48, 345101 | 15 |

| 1200 | On Passive Permutation Circuits. 2015 , 5, 173-182 | 3 |
|--------------|--|-----------------|
| 1199 | The Missing Memristor has Not been Found. 2015 , 5, 11657 | 64 |
| 1198 | Generic meminductive characteristics of switched reluctance machines. 2015 , 24, 068401 | |
| 1197 | Memristive non-linear system and hidden attractor. 2015 , 224, 1563-1574 | 32 |
| 1196 | Toward the complete relational graph of fundamental circuit elements. 2015 , 24, 068402 | 21 |
| 1195 | Chua's Constitutive Memristor Relations for Physical Phenomena at Metal®xide Interfaces. 2015 , 5, 143-152 | 7 |
| 1194 | . 2015 , 14, 954-962 | 32 |
| 1193 | Associative memory realized by a reconfigurable memristive Hopfield neural network. 2015 , 6, 7522 | 144 |
| 1192 | A survey on memristor modeling and security applications. 2015, | 12 |
| 1191 | Memristor: Models, Types, and Applications. 2015 , 13-49 | 10 |
| 1190 | Study of Memristive Associative Capacitive Networks for CAM Applications. 2015 , 5, 153-161 | 6 |
| 1189 | Memcomputing with membrane memcapacitive systems. 2015 , 26, 225201 | 19 |
| | | |
| 1188 | Anatomy of vertical heteroepitaxial interfaces reveals the memristive mechanism in NbDENaNbOI thin films. 2015 , 5, 9229 | 10 |
| 1188 | | |
| | thin films. 2015 , 5, 9229 | |
| 1187 | A Family of Memristive-Transfer Functions of Negative-Feedback Nullor-Based Amplifiers. 2015 , 34, 3431-344 2D Nanovaristors at Grain Boundaries Account for Memristive Switching in Polycrystalline BiFeO3. | .7 ₁ |
| 1187 1186 | A Family of Memristive-Transfer Functions of Negative-Feedback Nullor-Based Amplifiers. 2015, 34, 3431-344 2D Nanovaristors at Grain Boundaries Account for Memristive Switching in Polycrystalline BiFeO3. 2015, 1, 1500019 Variation of Self-Seeded Germanium Nanowire Electronic Device Functionality due to Synthesis | 10 |

(2015-2015)

| 1182 | On a study of optically coupled memristive Chua circuits hythmogenesis and amplitude death. 2015 , 379, 1418-1424 | 4 |
|------|--|----|
| 1181 | Synchronization of Fuzzy Modeling Chaotic Time Delay Memristor-Based Chuall Circuits with Application to Secure Communication. 2015 , 17, 206-214 | 42 |
| 1180 | Oscillator Made of Only One Memristor and One Battery. 2015 , 25, 1530010 | 21 |
| 1179 | Modelling of nanostructured TiO2-based memristors. 2015 , 36, 034001 | 23 |
| 1178 | Low Power Memristor Based 7T SRAM Using MTCMOS Technique. 2015 , | 6 |
| 1177 | Memristor-based comparator with programmable hysteresis. 2015, | 6 |
| 1176 | Bi-channel memristor memory: A design methodology based on current feedback. 2015, | |
| 1175 | Composite Characteristics of Memristor Series and Parallel Circuits. 2015 , 25, 1530019 | 9 |
| 1174 | A complete classification of memristor devices. 2015, | O |
| 1173 | Memristor-CMOS interfacing circuit SPICE model. 2015, | 2 |
| 1172 | On the Amplitude of External Perturbation and Chaos via Devil's Staircase Estability of Attractors. 2015 , 25, 1550145 | 3 |
| 1171 | Memristor emulator based on practical current controlled model. 2015, | 14 |
| 1170 | Complex behavior in memristor circuits based on static nonlinear two-ports and dynamic bipole. 2015 , | 2 |
| 1169 | DC Circuit Model of TiO2-based Memristors. 2015 , 24, 1550004 | 1 |
| 1168 | Dynamic memory of a single voltage-gated potassium ion channel: A stochastic nonequilibrium thermodynamic analysis. 2015 , 142, 185101 | 5 |
| 1167 | Memristive behaviour in inkjet printed graphene oxide thin layers. 2015 , 5, 68565-68570 | 42 |
| 1166 | Titanium oxide vertical resistive random-access memory device. 2015 , 10, 321-323 | 4 |
| 1165 | Memristor-based Willshaw network: Capacity and robustness to noise in the presence of defects. 2015 , 106, 223505 | 11 |

| 1164 Performance analysis of a memristive crossbar PUF design. 2015 , | 25 |
|---|-----|
| 1163 Implementing trigonometric nonlinearity in linear ion-drift memristor model. 2015 , | |
| 1162 Composite behaviors of series and parallel meminductor circuits. 2015 , | |
| 1161 Factored Forms for Memristive Material Implication Stateful Logic. 2015 , 5, 267-278 | 14 |
| 1160 Memristor-based synapses and neurons for neuromorphic computing. 2015 , | 5 |
| 1159 A fully symbolic homotopy-based memristor model for applications to circuit simulation. 2015 , 85, 65-80 | 7 |
| The effect of changing electrode metal on solution-processed flexible titanium dioxide memristors. 2015 , 162, 20-30 | 28 |
| 1157 An organicIhorganic hybrid perovskite logic gate for better computing. 2015 , 3, 10793-10798 | 55 |
| Behavioural modelling of memristive devices targeted to sensor interfaces. 2015 , | 4 |
| An Extension of Hard Switching Memristor Model. 2015 , 315-326 | |
| Computational Study on the Electrical Behavior of Silicon Nanowire Memristive Biosensors. 2015 , 15, 6208-6217 | 15 |
| Resistive switching phenomena: A review of statistical physics approaches. 2015 , 2, 031303 | 243 |
| 1152 Impact of active areas on electrical characteristics of TiO2 based solid-state memristors. 2015 , | 3 |
| 1151 Hyperchaos in a 4D memristive circuit with infinitely many stable equilibria. 2015 , 79, 2295-2308 | 135 |
| 1150 Fractional order junctions. 2015 , 20, 1-8 | 10 |
| Synchronization of a class of memristive neural networks with time delays via sampled-data control. 2015 , 6, 365-373 | 19 |
| Power Profile Obfuscation Using Nanoscale Memristive Devices to Counter DPA Attacks. 2015 , 14, 26-35 | 10 |
| Neuromorphic Hardware System for Visual Pattern Recognition With Memristor Array and CMOS Neuron. 2015 , 62, 2410-2419 | 150 |

| 1146 | Neuronal synapse as a memristor: modeling pair- and triplet-based STDP rule. 2015 , 9, 87-95 | 28 |
|------|---|-----|
| 1145 | A unified cubic flux-controlled memristor: theoretical analysis, simulation and circuit experiment. 2015 , 28, 335-345 | 19 |
| 1144 | State estimation for memristor-based neural networks with time-varying delays. 2015 , 6, 213-225 | 15 |
| 1143 | Memory impedance in TiO2 based metal-insulator-metal devices. 2014 , 4, 4522 | 67 |
| 1142 | A compact, low-frequency, memristor-based oscillator. 2015 , 43, 1801-1806 | 15 |
| 1141 | A fractional perspective to the bond graph modelling of world economies. 2015 , 80, 1839-1852 | 34 |
| 1140 | Nanoscale Memristor. 2016 , | |
| 1139 | Design and Analysis of a Neuromemristive Reservoir Computing Architecture for Biosignal Processing. 2015 , 9, 502 | 40 |
| 1138 | Realization of a flux-driven memtranstor at room temperature. 2016 , 25, 027703 | 7 |
| 1137 | Memristor-based chaotic circuit for pseudo-random sequence generators. 2016 , | 9 |
| 1136 | Window functions and sigmoidal behaviour of memristive systems. 2016 , 44, 1685-1696 | 16 |
| 1135 | Complete stability of feedback CNNs with dynamic memristors and second-order cells. 2016 , 44, 1959-1981 | 21 |
| 1134 | Compact Two-State-Variable Second-Order Memristor Model. 2016 , 12, 3320-6 | 22 |
| 1133 | Organic Biomimicking Memristor for Information Storage and Processing Applications. 2016 , 2, 1500298 | 130 |
| 1132 | Effect of different memristor window function with variable random resistance on the performance of memristor-based RO-PUF. 2016 , | 1 |
| 1131 | . 2016, | 4 |
| 1130 | Wave digital emulation of a double barrier memristive device. 2016 , | 9 |
| 1129 | A 4-D Hyperchaotic Memristive Dynamical System. 2016 , 76, 02047 | 1 |

| 1128 | Associative memory algorithm for visual pattern recognition with memristor array and CMOS neuron. 2016 , | 2 |
|------------------------------|---|---------------------|
| 1127 | An accurate memristor model based on a novel definition of memristance. 2016, | |
| 1126 | Area efficient implementation of ripple carry adder using memristor crossbar arrays. 2016, | 14 |
| 1125 | Constructing a Chaotic System with an Infinite Number of Equilibrium Points. 2016 , 26, 1650225 | 27 |
| 1124 | Analysis of the Dynamics of Piecewise Linear Memristors. 2016 , 26, 1650217 | 1 |
| 1123 | Memristive Sisyphus circuit for clock signal generation. 2016 , 6, 26155 | 6 |
| 1122 | Memristive behaviour in poly-acrylic acid coated TiO nanotube arrays. 2016 , 27, 485208 | 19 |
| 1121 | Low-temperature atomic layer deposition of TiO2 thin layers for the processing of memristive devices. 2016 , 34, 01A147 | 26 |
| 1120 | Experimental study of gradual/abrupt dynamics of HfO2-based memristive devices. 2016, 109, 133504 | 42 |
| 1119 | Novel information processing devices: A material odyssey. 2016 , | |
| | The result of the cessing devices. A financial despase of 2010, | |
| 1118 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016 , | 3 |
| 1118 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. | 3 |
| | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016 , | |
| 1117 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016 , Resistive Switching in Aqueous Nanopores by Shock Electrodeposition. 2016 , 222, 370-375 | 8 |
| 1117 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016, Resistive Switching in Aqueous Nanopores by Shock Electrodeposition. 2016, 222, 370-375 Memristor-based arbiter Physically Unclonable Function (APUF) with multiple response bits. 2016, An accurate locally active memristor model for S-type negative differential resistance in NbOx. | 1 |
| 1117 1116 1115 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016, Resistive Switching in Aqueous Nanopores by Shock Electrodeposition. 2016, 222, 370-375 Memristor-based arbiter Physically Unclonable Function (APUF) with multiple response bits. 2016, An accurate locally active memristor model for S-type negative differential resistance in NbOx. 2016, 108, 023505 Enhanced Model of Conductive Filament-Based Memristor via Including Trapezoidal Electron | 1 123 |
| 1117 1116 1115 1114 | Resistance impact by long connections on electrical behavior of integrated Memristive Biosensors. 2016, Resistive Switching in Aqueous Nanopores by Shock Electrodeposition. 2016, 222, 370-375 Memristor-based arbiter Physically Unclonable Function (APUF) with multiple response bits. 2016, An accurate locally active memristor model for S-type negative differential resistance in NbOx. 2016, 108, 023505 Enhanced Model of Conductive Filament-Based Memristor via Including Trapezoidal Electron Tunneling Barrier Effect. 2016, 15, 484-491 | 8 1 123 19 |

| 1110 | A novel memristive timedelay chaotic system without equilibrium points. 2016, 225, 127-136 | 94 |
|------|--|----|
| 1109 | Modeling of memristor-based chaotic systems using nonlinear Wiener adaptive filters based on backslash operator. 2016 , 87, 12-16 | 12 |
| 1108 | A Novel Design Approach of a Nonlinear Resistor Based on a Memristor Emulator. 2016 , 3-34 | 10 |
| 1107 | Unipolar memristive switching in bulk positive temperature coefficient ceramic thermistor. 2016 , 30, 1650025 | 1 |
| 1106 | Chua Corsage Memristor Oscillator via Hopf Bifurcation. 2016 , 26, 1630009 | 42 |
| 1105 | Deterministic Role of Concentration Surplus of Cation Vacancy over Anion Vacancy in Bipolar Memristive NiO. 2016 , 8, 11583-91 | 18 |
| 1104 | A spiking and bursting neuron circuit based on memristor. 2016 , 203, 86-91 | 95 |
| 1103 | A New Multi-wing Chaotic System and Its Fractional-Order Form. 2016 , 98-107 | |
| 1102 | Hysteresis versus PSM of ideal memristors, memcapacitors, and meminductors. 2016 , 52, 1669-1671 | 8 |
| 1101 | Some electromechanical systems and analogies of mem-systems integer and fractional order. 2016 , | 5 |
| 1100 | Survey on memrister models. 2016 , | 3 |
| 1099 | Expression of emotion using a system combined artificial neural network and memristor-based crossbar array. 2016 , | 2 |
| 1098 | . 2016 , 16, 15-30 | 93 |
| 1097 | Synaptic electronics and neuromorphic computing. 2016 , 59, 1 | 58 |
| 1096 | Design of a Low-Frequency Oscillator with PTC Memristor and an Inductor. 2016 , 26, 1630021 | 3 |
| 1095 | Dynamics, Analysis and Implementation of a Multiscroll Memristor-Based Chaotic Circuit. 2016 , 26, 1650128 | 25 |
| 1094 | Global Optimal Trajectory in Chaos and NP-Hardness. 2016 , 26, 1650142 | 5 |
| 1093 | A nonlinear circuit with two memcapacitors. 2016 , 86, 1735-1744 | 34 |

| 1092 Class A and Class AB CMOS-Only Nanopower Memristive Dynamics Emulators. 2016 , 26, 1650127 | 1 |
|--|---|
| 1091 A circuit design for multi-inputs stateful OR gate. 2016 , 380, 3081-3085 | 7 |
| 1090 A class of versatile circuits, made up of standard electrical components, are memristors. 2016 , 44, 127- | -146 32 |
| 1089 Variation of a classical fingerprint of ideal memristor. 2016 , 44, 1202-1207 | 10 |
| 1088 A New Simple Chaotic Circuit Based on Memristor. 2016 , 26, 1650145 | 50 |
| 1087 Electronically tunable memristor emulator circuit. 2016 , 89, 655-663 | 67 |
| 1086 Qubit-Based Memcapacitors and Meminductors. 2016 , 6, | 19 |
| 1085 Design of Low Power Memristor Non-Volatile Dram Cell with Footer Switch. 2016 , | |
| On-printed circuit board emulator with controllability of pinched hysteresis loop for nanoscale (mathrm{TiO}_2) thin-film memristor device. 2016 , 15, 993-1002 | 8 |
| | |
| 1083 Memristors for Energy-Efficient New Computing Paradigms. 2016 , 2, 1600090 | 188 |
| 1083 Memristors for Energy-Efficient New Computing Paradigms. 2016 , 2, 1600090 1082 A two-transistor non-ideal memristor emulator. 2016 , | 188 |
| | |
| 1082 A two-transistor non-ideal memristor emulator. 2016 , | 6 |
| 1082 A two-transistor non-ideal memristor emulator. 2016 , 1081 Global Dynamics of Memristor Oscillator. 2016 , 26, 1650198 Slow-Scale Instability in Voltage-Mode Controlled H-Bridge Inverter with Memristive Load. 2016 , | 6 5 |
| 1082 A two-transistor non-ideal memristor emulator. 2016, 1081 Global Dynamics of Memristor Oscillator. 2016, 26, 1650198 1080 Slow-Scale Instability in Voltage-Mode Controlled H-Bridge Inverter with Memristive Load. 2016, 26, 1650200 | 6 5 5 |
| A two-transistor non-ideal memristor emulator. 2016, Global Dynamics of Memristor Oscillator. 2016, 26, 1650198 Slow-Scale Instability in Voltage-Mode Controlled H-Bridge Inverter with Memristive Load. 2016, 26, 1650200 Neuromorphic microelectronics from devices to hardware systems and applications. 2016, 7, 468-498 | 656 |
| 1082 A two-transistor non-ideal memristor emulator. 2016, 1081 Global Dynamics of Memristor Oscillator. 2016, 26, 1650198 1080 Slow-Scale Instability in Voltage-Mode Controlled H-Bridge Inverter with Memristive Load. 2016, 26, 1650200 1079 Neuromorphic microelectronics from devices to hardware systems and applications. 2016, 7, 468-498 1078 The simplest memristor in the world. 2016, Emulating the physical properties of HP memristor using an arduino and a digital potentiometer. | 6562 |

(2016-2016)

| Measurement Units and Physical Dimensions of Fractance-Part I: Position 1074 Chuall Axiomatic Circuit Element System and Fractional-Order Reactance Implementation. 2016 , 4, 3379-3397 | |
|--|--|
| 1073 Introduction to Nanoionic Elements for Information Technology. 2016 , 1 | -30 9 |
| 1072 ReRAM Cells in the Framework of Two-Terminal Devices. 2016 , 31-48 | 1 |
| 1071 ReRAM-Based Neuromorphic Computing. 2016 , 715-736 | 15 |
| 1070 Electro-Photo-Sensitive Memristor for Neuromorphic and Arithmetic Co | mputing. 2016 , 5, 30 |
| 1069 Quasistatic and Pulse Measuring Techniques. 2016 , 341-362 | 1 |
| Unsupervised learning in probabilistic neural networks with multi-state synapses. 2016 , 7, 12611 | metal-oxide memristive 216 |
| Quantized conductance coincides with state instability and excess noise memristors. 2016 , 7, 11142 | in tantalum oxide 69 |
| 1066 On lossy memristive behavior of metal conductors. 2016 , | |
| | |
| 1065 High-level simulation of a PID controller based on memristor. 2016 , | 4 |
| High-level simulation of a PID controller based on memristor. 2016 , Low frequency oscillation in voltage controlled H-bridge inverter with m and experiments. 2016 , | 4 emristive load: Simulations |
| Low frequency oscillation in voltage controlled H-bridge inverter with m | |
| Low frequency oscillation in voltage controlled H-bridge inverter with m and experiments. 2016 , | ггау. 2016 , |
| Low frequency oscillation in voltage controlled H-bridge inverter with m and experiments. 2016 , 1063 A neotype implemention method for CRS-based logic gates in crossbar and experiments. | 918 8 FT Calculations on the |
| Low frequency oscillation in voltage controlled H-bridge inverter with mand experiments. 2016 , 1063 A neotype implemention method for CRS-based logic gates in crossbar at 1062 A Memristive Pixel Architecture for Real-Time Tracking. 2016 , 16, 7911-70 Advanced Photoemission Spectroscopy Investigations Correlated with D | 918 8 PT Calculations on the 3, 31403-31412 |
| Low frequency oscillation in voltage controlled H-bridge inverter with mand experiments. 2016 , 1063 A neotype implemention method for CRS-based logic gates in crossbar at 1062 A Memristive Pixel Architecture for Real-Time Tracking. 2016 , 16, 7911-7 Advanced Photoemission Spectroscopy Investigations Correlated with D Self-Assembly of 2D Metal Organic Frameworks Nano Thin Films. 2016 , 8 | 918 8 FT Calculations on the 3, 31403-31412 |
| Low frequency oscillation in voltage controlled H-bridge inverter with mand experiments. 2016 , 1063 A neotype implemention method for CRS-based logic gates in crossbar at 1062 A Memristive Pixel Architecture for Real-Time Tracking. 2016 , 16, 7911-7 1061 Advanced Photoemission Spectroscopy Investigations Correlated with D Self-Assembly of 2D Metal Organic Frameworks Nano Thin Films. 2016 , 8 1060 Real-time encoding and compression of neuronal spikes by metal-oxide in the property of | 918 8 FT Calculations on the 3, 31403-31412 |

1056 A novel 4-D hyperchaotic four-wing memristive system. **2016**,

| Harmonica: A Framework of Heterogeneous Computing Systems With Memristor-Based Neuromorphic Computing Accelerators. 2016 , 63, 617-628 | 35 |
|---|----|
| 1054 . 2016 , 16, 11-15 | |
| 1053 Fracmemristor: Fractional-Order Memristor. 2016 , 4, 1872-1888 | 86 |
| Investigations of the staircase memristor model and applications of memristor-based local connections. 2016 , 87, 263-273 | 6 |
| Resistive switching characteristics in memristors with Al2O3/TiO2and TiO2/Al2O3bilayers. 2016 , 55, 08PB02 | 17 |
| 1050 Parasitic Effects on Memristor Dynamics. 2016 , 26, 1630014 | 16 |
| 1049 Generalized boundary condition memristor model. 2016 , 44, 60-84 | 39 |
| 1048 Stochasticity Modeling in Memristors. 2016 , 15, 15-28 | 62 |
| Suppressing chaos in a simplest autonomous memristor-based circuit of fractional order by periodic impulses. 2016 , 84, 31-40 | 25 |
| 1046 Memristive and Memcapacitive Models of Physarum Learning. 2016 , 413-422 | 1 |
| 1045 On the Memristive Properties of Slime Mould. 2016 , 75-90 | |
| 1044 Memcomputing Implementation of Ant Colony Optimization. 2016 , 44, 265-277 | 7 |
| 1043 The Case of Bidirectionally Coupled Nonlinear Circuits Via a Memristor. 2016 , 317-350 | 14 |
| Role and Optimization of the Active Oxide Layer in TiO2-Based RRAM. 2016 , 26, 507-513 | 36 |
| Modeling and Suppression of Chaotic Ferroresonance in a Power System by Using Memristor-based System. 2016 , 44, 638-645 | 10 |
| 1040 A Memristive Pascaline. 2016 , 63, 558-562 | 7 |
| 1039 Memristive Model of the Barnacle Giant Muscle Fibers. 2016 , 26, 1630001 | 13 |

1038 Design of Non-volatile SRAM Cell Using Memristor. **2016**, 175-183

| 1037 A 250 mV Cu/SiO2/W Memristor with Half-Integer Quantum Conductance States. 2016 , 16, 1602-8 | 65 |
|---|-----|
| 1036 Memristive model of hysteretic field emission from carbon nanotube arrays. 2016 , 10, 012524 | 10 |
| An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. 2016 , 6, 25179-25184 | 37 |
| A novel memristive neural network with hidden attractors and its circuitry implementation. 2016 , 59, 358-363 | 126 |
| 1033 Synchronization of Delayed Memristive Neural Networks: Robust Analysis Approach. 2016 , 46, 3377-3387 | 185 |
| Exponential stability of memristor-based synchronous switching neural networks with time delays. 2016 , 09, 1650016 | 2 |
| Birth of one-to-four-wing chaotic attractors in a class of simplest three-dimensional continuous memristive systems. 2016 , 83, 1987-2001 | 23 |
| 1030 . 2016 , 24, 678-691 | 2 |
| Stability analysis of stochastic memristor-based recurrent neural networks with mixed time-varying delays. 2017 , 28, 1787-1799 | 16 |
| 1028 Speeding Up Cellular Neural Network Processing Ability by Embodying Memristors. 2017 , 28, 1228-1232 | 23 |
| 1027 Generalized two-port elements. 2017, 42, 451-455 | 8 |
| A Novel Modeling Methodology for Memristive Systems Using Homotopy Perturbation Methods. 2017 , 36, 947-968 | 4 |
| Exponential Synchronization of Memristive Neural Networks With Delays: Interval Matrix Method. 2017, 28, 1878-1888 | 155 |
| 1024 Multiple memristor seriesparallel connections with use in synaptic circuit design. 2017 , 11, 123-134 | 12 |
| 1023 A Logic Circuit Design for Perfecting Memristor-Based Material Implication. 2017 , 36, 279-284 | 35 |
| 1022 A Survey of Memristive Threshold Logic Circuits. 2017 , 28, 1734-1746 | 56 |
| On Building Practical Biocomputers for Real-world Applications: Receptacles for Culturing Slime Mould Memristors and Component Standardisation. 2017 , 14, 151-162 | 10 |

| Single CCTA based high frequency floating and grounded type of incremental/decremental memristor emulator and its application. 2017 , 60, 119-128 | 51 |
|--|-----|
| 1019 Efficient Memristor Model Implementation for Simulation and Application. 2017 , 36, 1226-1230 | 17 |
| 1018 Neuromemristive Systems: A Circuit Design Perspective. 2017 , 45-64 | 2 |
| 1017 A flexible memristive model with simplex basis function. 2017 , 30, e2183 | 1 |
| 1016 . 2017 , 45, 259-265 | 9 |
| 1015 Analysis of memristors with nonlinear memristance versus state maps. 2017 , 45, 1814-1832 | 5 |
| 1014 Fixed-time synchronization of delayed memristor-based recurrent neural networks. 2017 , 60, 1 | 209 |
| 1013 Memristor Emulators: A Note on Modeling. 2017 , 1-17 | 3 |
| 1012 Adaptive Control and Synchronization of a Memristor-Based Shinriki System. 2017, 237-261 | 8 |
| 1011 Analysis of Dynamic Linear Memristor Device Models. 2017 , 449-476 | 1 |
| 1010 A Hyperjerk Memristive System with Hidden Attractors. 2017 , 59-80 | 2 |
| 1009 A Memristive System with Hidden Attractors and Its Engineering Application. 2017 , 81-99 | 2 |
| 1008 RF/Microwave Applications of Memristors. 2017 , 159-185 | 6 |
| 1007 Analysis of a 4-D Hyperchaotic Fractional-Order Memristive System with Hidden Attractors. 2017 , 207-235 | 14 |
| 1006 Canonic Memristor: Bipolar Electrical Switching in Metal-Metal Contacts. 2017 , 263-273 | 1 |
| 1005 A Novel Flux-Controlled Memristive Emulator for Analog Applications. 2017 , 493-511 | 5 |
| 1004 A Simple Oscillator Using Memristor. 2017 , 19-58 | 3 |
| Synchronization and chaos in coupled memristor-based FitzHugh-Nagumo circuits with memristor synapse. 2017 , 75, 82-90 | 67 |

| 1002 | Complex dynamics of memristive circuits: Analytical results and universal slow relaxation. 2017 , 95, 022140 | 18 |
|------|--|-----|
| 1001 | The dynamic conductance response and mechanics-modulated memristive behavior of the Azurin monolayer under cyclic loads. 2017 , 19, 6757-6767 | 5 |
| 1000 | Quantum Memristors with Superconducting Circuits. 2017, 7, 42044 | 34 |
| 999 | Similarity between the response of memristive and memcapacitive circuits subjected to ramped voltage. 2017 , 11, 032507 | |
| 998 | Hysteresis in Muscle. 2017 , 27, 1730003 | 4 |
| 997 | Chua Corsage Memristor: Phase Portraits, Basin of Attraction, and Coexisting Pinched Hysteresis Loops. 2017 , 27, 1730011 | 30 |
| 996 | Pulse Responses of the Conducting Polymer Poly(3,4-ethylenedioxythiophene): Poly(styrenesulfonate)-Based Junctions. 2017 , 46, 1849-1854 | 1 |
| 995 | Global exponential stability of inertial memristor-based neural networks with time-varying delays and impulses. 2017 , 95, 102-109 | 52 |
| 994 | Zero-static-power nonvolatile logic-in-memory circuits for flexible electronics. 2017 , 10, 2459-2470 | 31 |
| 993 | Transporting an ionic-liquid/water mixture in a conical nanochannel: a nanofluidic memristor. 2017 , 53, 6125-6127 | 37 |
| 992 | Non-volatile low-power crossbar memcapacitor-based memory. 2017 , 64, 39-44 | 9 |
| 991 | Third-Order Memristive Morrislecar Model of Barnacle Muscle Fiber. 2017 , 27, 1730015 | 13 |
| 990 | Probing nanoscale oxygen ion motion in memristive systems. 2017 , 8, 15173 | 112 |
| 989 | Characteristics and transport mechanisms of triple switching regimes of TaOx memristor. 2017 , 110, 173504 | 20 |
| 988 | Electrical Nonlinearity Emulation Technique for Current-Controlled Memristive Devices. 2017 , 5, 5399-5409 | 27 |
| 987 | Emulation of synaptic metaplasticity in memristors. 2017 , 9, 45-51 | 56 |
| 986 | An enhanced lumped element electrical model of a double barrier memristive device. 2017 , 50, 195102 | 12 |
| 985 | Reservoir Computing in Embedded Systems: Three variants of the reservoir algorithm 2017 , 6, 67-73 | 5 |

| 984 | Reset switching statistics of TaOx-based Memristor. 2017 , 39, 132-136 | 4 |
|-----|---|----|
| 983 | A 4D Hyperjerk memristive system with hidden attractors. 2017 , | 2 |
| 982 | Hardware design of LIF with Latency neuron model with memristive STDP synapses. 2017, 59, 81-89 | 18 |
| 981 | Modeling of the multilevel conduction characteristics and fatigue profile of Ag/La1/3Ca2/3MnO3/Pt structures using a compact memristive approach. 2017 , 121, 205302 | 6 |
| 980 | Finite-time synchronization of inertial memristive neural networks with time-varying delays via sampled-date control. 2017 , 266, 527-539 | 60 |
| 979 | Sampled-data state estimation for delayed memristive neural networks with reaction-diffusion terms: HardyPoincarInequality. 2017, 266, 494-505 | 9 |
| 978 | Solitonic Josephson-based meminductive systems. 2017 , 7, 46736 | 23 |
| 977 | Finite-Time Lag Synchronization for Memristive Mixed Delays Neural Networks with Parameter Mismatch. 2017 , 47, 365 | 1 |
| 976 | Circuit simulation and physical implementation for a memristor-based colpitts oscillator. 2017 , 7, 035118 | 4 |
| 975 | The basic IIV characteristics of memristor model: simulation and analysis. 2017, 123, 1 | 6 |
| 974 | Nanoscale Tipping Bucket Effect in a Quantum Dot Transistor-Based Counter. 2017 , 17, 2273-2279 | 5 |
| 973 | Arduino-controlled HP memristor emulator for memristor circuit applications. 2017, 58, 438-445 | 11 |
| 972 | Dynamics of Hamiltonian Systems and Memristor Circuits. 2017 , 27, 1730005 | 8 |
| 971 | Nonequilibrium response of a voltage gated sodium ion channel and biophysical characterization of dynamic hysteresis. 2017 , 415, 113-124 | 2 |
| 970 | A 860kHz grounded memristor emulator circuit. 2017 , 73, 23-33 | 76 |
| 969 | Floating memristor emulator with subthreshold region. 2017 , 90, 471-475 | 52 |
| 968 | Computing with volatile memristors: an application of non-pinched hysteresis. 2017, 28, 075204 | 7 |
| 967 | Memristor based modulo multiplier design for (2n🛭) and 2n radix. 2017 , | 1 |

(2017-2017)

| 966 | Chaos and Hopf bifurcation control in a fractional-order memristor-based chaotic system with time delay. 2017 , 132, 1 | 21 |
|-----|--|-----|
| 965 | High-Performance Single-Active-Layer Memristor Based on an Ultrananocrystalline Oxygen-Deficient TiO Film. 2017 , 9, 36989-36996 | 19 |
| 964 | Voltage-Driven Hysteresis Model for Resistive Switching: SPICE Modeling and Circuit Applications. 2017 , 36, 2044-2051 | 23 |
| 963 | Light-Gated Memristor with Integrated Logic and Memory Functions. 2017 , 11, 11298-11305 | 116 |
| 962 | Differential Equations. 2017 , 17-44 | |
| 961 | Memristive devices from ZnO nanowire bundles and meshes. 2017 , 111, 153504 | 10 |
| 960 | Memristive response of a new class of hydrated vanadium oxide intercalation compounds. 2017 , 7, 634-641 | 4 |
| 959 | Andronov-Hopf bifurcation with and without parameter in a cubic memristor oscillator with a line of equilibria. 2017 , 27, 081104 | 16 |
| 958 | Double quantum dot memristor. 2017 , 96, | 9 |
| 957 | Research on low pass filter based on Memristor and memcapacitor. 2017 , | 3 |
| 956 | Pinched Hysteresis Loop Characteristics of a Fractional-Order HP (mathrm{TiO_2}) memristor. 2017 , 705-713 | 3 |
| 955 | A hyperjerk memristive system with infinite equilibrium points. 2017 , | 5 |
| 954 | Metastable memristive lines for signal transmission and information processing applications. 2017 , 95, 042213 | 3 |
| 953 | A generalized model of TiO x -based memristive devices and its application for image processing. 2017 , 26, 090502 | 3 |
| 952 | On memristor-based impulsive neural networks with time-delay. 2017, | |
| 951 | Memristor-Based High-Speed Memory Cell With Stable Successive Read Operation. 2017 , 1-1 | 8 |
| 950 | Hard and soft excitation of oscillations in memristor-based oscillators with a line of equilibria. 2017 , 89, 2829-2843 | 11 |
| 949 | Single DVCCTA based high frequency incremental/decremental memristor emulator and its application. 2017 , 82, 177-190 | 44 |

Multiple resistive switching in corellhell ZnO nanowires exhibiting tunable surface states. **2017**, 5, 10517-1052333

| 947 | Storages Are Not Forever. 2017 , 9, 646-658 | 4 |
|-----|---|----|
| 946 | Operating principles of reactance-less memristor-based oscillators. 2017 , 62, 621-625 | 7 |
| 945 | Classical and quantum stochastic models of resistive and memristive circuits. 2017 , 58, 073505 | 1 |
| 944 | Locality of interactions for planar memristive circuits. 2017 , 96, 052206 | 8 |
| 943 | Dynamical Analysis of a Novel Chaotic Circuit. 2017 , 359-368 | |
| 942 | Investigations of switching phenomena in Pt/HfO2/Ti/Pt memristive devices. 2017, | |
| 941 | A numerical analysis and experimental demonstration of a low degradation conductive bridge resistive memory device. 2017 , 122, 164502 | 1 |
| 940 | Forming-free high-endurance Al/ZnO/Al memristor fabricated by dual ion beam sputtering. 2017 , 110, 253509 | 61 |
| 939 | Experimental Observation of Negative Susceptance in HfO2-Based RRAM Devices. 2017 , 38, 1216-1219 | 9 |
| 938 | Dual inputButput pairs for modeling hysteresis inspired by mem-models. 2017 , 88, 2435-2455 | 8 |
| 937 | Memristor-based timing circuit. 2017 , | 3 |
| 936 | Nonlinear feedback coupling in Hindmarsh R ose neurons. 2017 , 87, 1879-1899 | 29 |
| 935 | Hopf bifurcation and chaos in a fractional order delayed memristor-based chaotic circuit system. 2017 , 130, 189-200 | 42 |
| 934 | Memristors in Unconventional Computing: How a Biomimetic Circuit Element Can be Used to Do Bioinspired Computation. 2017 , 497-542 | |
| 933 | Improving Detection Accuracy of Memristor-Based Bio-Signal Sensing Platform. 2017 , 11, 203-211 | 4 |
| 932 | A general overview of memristor devices. 2017 , | |
| 931 | Chaotic synchronization in coupled neuronal circuits via a memristor. 2017 , | O |

| 930 | Digital-Analog Hybrid Scheme and Its Application to Chaotic Random Number Generators. 2017 , 27, 1750210 | 5 |
|-----|--|---|
| 929 | A pulse-based memristor programming circuit. 2017 , | 3 |
| 928 | Characterization, and modeling of memristor devices. 2017, | O |
| 927 | Memristive CNN for trajectory recognition. 2017 , | |
| 926 | New design of a three-terminal memristor emulator. 2017 , | 2 |
| 925 | Determination of edge of chaos in hysteresis CNN model with memristor synapses. 2017 , | 3 |
| 924 | Low power filter design using memristor, meminductor and memcapacitor. 2017, | 6 |
| 923 | Switching synchronization in one-dimensional memristive networks: An exact solution. 2017 , 96, 062213 | 2 |
| 922 | Filamentary model in resistive switching materials. 2017, | 2 |
| 921 | Bulk-based DC offset calibration for low-power memristor array read-out system. 2017, | |
| 920 | A study on the effect of square and triangle signals phase on memristance and its applications. 2017 , | О |
| 919 | An analysis of the dynamics of SPICE memristor model. 2017 , | 5 |
| 918 | Study of two-memristor circuit model with explicit composition method. 2017, | |
| 917 | 4 Transistor and 2 memristor based memory. 2017 , | 3 |
| 916 | Memristive two-ports. 2017 , | 3 |
| 915 | A new supervised learning approach for visual pattern recognition using discrete circuit elements and memristor array. 2017 , | 1 |
| | | |
| 914 | Study of two-memcapacitor circuit model with semi-explicit ODE solver. 2017 , | |

912 Associative search using pseudo-analog memristors. **2017**,

| 244 | Characteristic Analysis of Fractional-Order 4D Hyperchaotic Memristive Circuit. 2017 , 2017, 1-13 | -(|
|-----|--|------|
| 911 | Characteristic Analysis of Fractional-Order 4D Hyperchaotic Memilistive Circuit. 2017, 2017, 1-13 | 16 |
| 910 | Fractional Order Memristor No Equilibrium Chaotic System with Its Adaptive Sliding Mode Synchronization and Genetically Optimized Fractional Order PID Synchronization. 2017 , 2017, 1-19 | 57 |
| 909 | Voltage-Current Differential Equations of Extended Memristors with One-Dimensional State. 2017, | |
| 908 | Parameter identification of a double barrier memristive device. 2017, | 5 |
| 907 | An efficient electronic measurement interface for memristive biosensors. 2017, | 2 |
| 906 | A CMOS synapse design implementing tunable asymmetric spike timing-dependent plasticity. 2017, | 2 |
| 905 | A new memristor and memcapacitor-based high pass filter. 2017, | 1 |
| 904 | Characteristics for series and parallel circuits of flux-controlled memristors. 2017 , 14, 20170230-20170230 | 2 |
| 903 | Wavelet analysis of a memristor emulated model proposed for compact fluorescent lamp operated systems. 2018 , 160, 56-62 | 1 |
| 902 | A high-precision time-domain RRAM state control approach. 2018 , 74, 94-105 | 6 |
| 901 | Multi-terminal memtransistors from polycrystalline monolayer molybdenum disulfide. 2018 , 554, 500-504 | 469 |
| 900 | Numerical analysis of a polysilicon-based resistive memory device. 2018 , 17, 766-773 | |
| 899 | . 2018 , 17, 268-275 | 11 |
| 898 | Dynamical analysis and circuit implementation of a DC/DC single-stage boost converter with memristance load. 2018 , 93, 1741-1755 | 12 |
| 897 | Stability of memristor neural networks with delays operating in the flux-charge domain. 2018 , 355, 5135-516 | 2 11 |
| 896 | Bipolar resistive switching and memristive properties of hydrothermally synthesized TiO2 nanorod array: Effect of growth temperature. 2018 , 151, 37-47 | 42 |
| 895 | Difference equations of a memristor higher order hyperchaotic oscillator. 2018 , 10, 279-285 | 8 |

(2018-2018)

| 894 | Synchronization and anti-synchronization of a fractional order delayed memristor-based chaotic system using active control. 2018 , 32, 1850142 | 10 |
|-----|---|-----|
| 893 | Numerical Simulation Research of Fracmemristor Circuit Based on HP Memristor. 2018 , 27, 1850227 | 2 |
| 892 | Predictive Models of Nanodevices. 2018 , 17, 906-913 | 8 |
| 891 | Coexisting bifurcations in a memristive hyperchaotic oscillator. 2018 , 90, 110-122 | 46 |
| 890 | Analog Circuit Implementation of Fractional-Order Memristor: Arbitrary-Order Lattice Scaling Fracmemristor. 2018 , 65, 2903-2916 | 34 |
| 889 | A Lumped RF Model for Nanoscale Memristive Devices and Nonvolatile Single-Pole Double-Throw Switches. 2018 , 17, 873-883 | 8 |
| 888 | Exponential synchronization of stochastic time-delayed memristor-based neural networks via distributed impulsive control. 2018 , 286, 41-50 | 21 |
| 887 | Design and analysis of 2T2M hybrid CMOS-Memristor based RRAM. 2018 , 73, 75-85 | 15 |
| 886 | Resistance Switching and Memristive Hysteresis in Visible-Light-Activated Adsorbed ZnO Thin Films. 2018 , 8, 2184 | 20 |
| 885 | Efficient Mapping of Boolean Functions to Memristor Crossbar Using MAGIC NOR Gates. 2018 , 65, 2466-2476 | 14 |
| 884 | TIMEII unable Inductors Using MEmristors. 2018, 65, 1505-1515 | 13 |
| 883 | Hyperchaotic Memcapacitor Oscillator with Infinite Equilibria and Coexisting Attractors. 2018, 37, 3702-3724 | 35 |
| 882 | Surface-screening mechanisms in ferroelectric thin films and their effect on polarization dynamics and domain structures. 2018 , 81, 036502 | 93 |
| 881 | Uncertain destination dynamics of a novel memristive 4D autonomous system. 2018 , 107, 177-185 | 54 |
| 880 | FPGA implementation of fractional-order discrete memristor chaotic system and its commensurate and incommensurate synchronisations. 2018 , 90, 1 | 20 |
| 879 | Resistive switching in individual ZnO nanorods: delineating the ionic current by photo-stimulation. 2018 , 29, 105701 | 6 |
| 878 | The future of electronics based on memristive systems. 2018 , 1, 22-29 | 813 |
| 877 | Modeling of Memristive Devices for Neuromorphic Application. 2018 , 175-202 | 1 |
| | | |

| 876 | Lag synchronization for fractional-order memristive neural networks with time delay via switching jumps mismatch. 2018 , 355, 1217-1240 | 35 |
|-----|--|-----|
| 875 | Various Attractors, Coexisting Attractors and Antimonotonicity in a Simple Fourth-Order Memristive Twin-T Oscillator. 2018 , 28, 1850050 | 74 |
| 874 | Photo-Electrosensitive Memristor Using Oxygen Doping in HgTe Nanocrystal Films. 2018 , 10, 18927-18934 | 11 |
| 873 | Flux-Charge Description of Circuits With Non-Volatile Switching Memristor Devices. 2018 , 65, 642-646 | 9 |
| 872 | . 2018 , 26, 2671-2683 | 5 |
| 871 | A Memristive Chaotic Oscillator With Increasing Amplitude and Frequency. 2018 , 6, 12945-12950 | 72 |
| 870 | Sub 100 nW Volatile Nano-Metal-Oxide Memristor as Synaptic-Like Encoder of Neuronal Spikes. 2018 , 12, 351-359 | 13 |
| 869 | Nullor-Based Negative-Feedback Memristive Amplifiers: Symbolic-Oriented Modelling and Design. 2018 , 329-360 | |
| 868 | Studying the dynamics of memristive synapses in spiking neuromorphic systems. 2018, | 2 |
| 867 | A Collective Study on Modeling and Simulation of Resistive Random Access Memory. 2018 , 13, 8 | 62 |
| 866 | Electrical activity signal spectrum of the artificial neural net on the base of pulsed neurons and memristors. 2018 , | O |
| 865 | Different impulsive effects on synchronization of fractional-order memristive BAM neural networks. 2018 , 93, 233-250 | 26 |
| 864 | SPICE simulation of memristive circuits based on memdiodes with sigmoidal threshold functions. 2018 , 46, 39-49 | 2 |
| 863 | Memristive, memcapacitive and meminductive behavior of single and co-doped cadmium selenide nanocomposites under different doping environment. 2018 , 29, 546-557 | O |
| 862 | Exploring a Novel Methodology for DC Analysis in Memristive Circuits with Multiple Operating Points. 2018 , 37, 2227-2249 | 0 |
| 861 | On-Demand Reconfiguration of Nanomaterials: When Electronics Meets Ionics. 2018 , 30, 1702770 | 116 |
| 860 | Memristor Device Overview. 2018 , 1-29 | 2 |
| 859 | A Novel Design for Memristor-Based Multiplexer Via NOT-Material Implication. 2018 , 37, 1436-1444 | 10 |

| 858 | GST-memristor-based online learning neural networks. 2018 , 272, 677-682 | 33 |
|-----|--|-----|
| 857 | Memristive Logic-in-Memory Integrated Circuits for Energy-Efficient Flexible Electronics. 2018 , 28, 1704725 | 37 |
| 856 | Memristor with Ag-Cluster-Doped TiO2 Films as Artificial Synapse for Neuroinspired Computing. 2018 , 28, 1705320 | 221 |
| 855 | Global exponential stability and lag synchronization for delayed memristive fuzzy Cohen-Grossberg BAM neural networks with impulses. 2018 , 98, 122-153 | 62 |
| 854 | Chemical sensors are hybrid-input memristors. 2018 , 436, 1018-1021 | 5 |
| 853 | Design of a memristor based fuzzy processor. 2018 , 84, 331-341 | 7 |
| 852 | Dynamical analysis and FPGA implementation of a chaotic oscillator with fractional-order memristor components. 2018 , 91, 1491-1512 | 34 |
| 851 | Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. 2018 , 3, 90-204 | 203 |
| 850 | New results on passivity analysis of memristive neural networks with time-varying delays and reaction diffusion term. 2018 , 275, 2080-2092 | 16 |
| 849 | Exploring resistive switching-based memristors in the charge fl ux domain: A modeling approach. 2018 , 46, 29-38 | 20 |
| 848 | Bipolar resistive switching with coexistence of mem-elements in the spray deposited CoFe2O4 thin film. 2018 , 29, 3231-3238 | 16 |
| 847 | Global exponential stability of memristive Cohen G rossberg neural networks with mixed delays and impulse time window. 2018 , 275, 2384-2391 | 21 |
| 846 | Holding State Performance Amelioration by Exploitation of NMOS Body Effect in 1T DRAM Cells. 2018 , 99, 47-66 | |
| 845 | Simplest memristive system. 2018 , 156, 1-7 | 6 |
| 844 | Anticipation of digital patterns. 2018, 46, 235-243 | 8 |
| 843 | . 2018 , 65, 246-250 | 41 |
| 842 | The mise en sche of memristive networks: effective memory, dynamics and learning. 2018, 33, 350-366 | 6 |
| 841 | About v-i Pinched Hysteresis of Some Non-Memristive Systems. 2018 , 2018, 1-10 | 5 |

| 840 | Exact Analysis and Physical Realization of the 6-Lobe Chua Corsage Memristor. 2018, 2018, 1-21 | 11 |
|-----|---|-----|
| 839 | New Memristive Band-Pass and Band-Stop Filter Circuits for Signal Division. 2018, | 1 |
| 838 | A Compact CMOS Memristor Emulator Circuit and its Applications. 2018, | 10 |
| 837 | Study on Acttive Filter Based on Memristor and Memcapacitor. 2018, | 2 |
| 836 | Current-input current-output analog half center oscillator and central pattern generator circuits with memristors. 2018 , 46, 1294-1310 | 4 |
| 835 | A Novel Charge-Controlled Memristor Model and Its Emulator Circuit. 2018, | |
| 834 | Design, synthesis, and characterization of an Fe(II)-polymer of a redox non-innocent, heteroatomic, polydentate Schiff's base ligand: negative differential resistance and memory behaviour. 2018 , 42, 19090-19 | 108 |
| 833 | Memristor emulators with symmetric and asymmetric threshold voltages. 2018, | 1 |
| 832 | The Novel Nonlinear Dynamics and Performance in Switch Circuit with Memristor Load Applied. 2018 , | |
| 831 | Biological plausibility and stochasticity in scalable VO active memristor neurons. 2018, 9, 4661 | 191 |
| 830 | Coexistence of memristive and memcapacitive effects in oxide thin films. 2018, 57, 121502 | 7 |
| 829 | Multifunctional Optoelectronic Device Based on Resistive Switching Effects. 2018, | 2 |
| 828 | Memory characteristics of microcavity dielectric barrier discharge. 2018 , 39, 114008 | |
| 827 | Complexity Analysis of a Mixed Memristive Chaotic Circuit. 2018 , 2018, 1-9 | 2 |
| 826 | . 2018, | O |
| 825 | A new modeled fractional-order memristor and its analysis in series circuit. 2018, | |
| 824 | Film Deposition Processes Based on Eco-Friendly, Flexible, and Transparent Materials for High-Performance Resistive Switching. 2018 , 482-482 | |
| 823 | Memristor-Based Phase Shifter. 2018 , | 2 |

| 822 | Memristors for the Curious Outsiders. 2018 , 6, 118 | 19 |
|-----|---|------|
| 821 | RF Single-Pole Double-Throw Switch Based on Memistor. 2018 , | 1 |
| 820 | New Results on Fuzzy Synchronization for a Kind of Disturbed Memristive Chaotic System. 2018 , 2018, 1-9 | 13 |
| 819 | Memristive retinomorphic grid architecture removing noise and preserving edge. 2018 , 97, 38-44 | 8 |
| 818 | Synaptic Behavior in Metal Oxide-Based Memristors. 2018, | 2 |
| 817 | A multi-level memristor based on atomic layer deposition of iron oxide. 2018 , 29, 495201 | 20 |
| 816 | Mem-Spring Models Combined with Hybrid Dynamical System Approach to Represent Material Behavior. 2018 , 144, 04018109 | 5 |
| 815 | Oxide Based Memristors: Fabrication, Mechanism, and Application. 2018, | 1 |
| 814 | Memristive Fractional-Order Nonlinear Model for Circuit Design. 2018 , 421-449 | |
| 813 | Physical Issues and Applications of Resistive Switching Phenomena. 2018 , 73, 852-857 | |
| 812 | Flux-Charge Analysis of Initial State-Dependent Dynamical Behaviors of a Memristor Emulator-Based Chuall Circuit. 2018 , 28, 1850120 | 25 |
| 811 | Temperature dependent analytical modeling and simulations of nanoscale memristor. 2018 , 21, 862-868 | 10 |
| 810 | Window function for fractional-order HP non-linear memristor model. 2018 , 12, 447-452 | 8 |
| 809 | Rectifying Resistive Memory Devices as Dynamic Complementary Artificial Synapses. 2018 , 12, 755 | 6 |
| 808 | A Memristive Neural Network Model With Associative Memory for Modeling Affections. 2018 , 6, 61614-6162 | 2 12 |
| 807 | A Flexible Memristor-Based Neural Network. 2018 , 263-272 | |
| 806 | Memory effects in the ion conductor Rb2Ti2O5. 2018 , 124, 152104 | 1 |
| 805 | Dynamical Behavior of a 3D Jerk System with a Generalized Memristive Device. 2018 , 2018, 1-10 | 3 |

| 804 | Emulator Circuits and Resistive Switching Parameters of Memristor. 2018, | 3 |
|-----|---|-----|
| 803 | When Memristance Crosses the Path with Humidity SensingAbout the Importance of Protons and Its Opportunities in Valence Change Memristors. 2018 , 4, 1800282 | 17 |
| 802 | Experimental hysteresis in memristor based Duffing oscillator. 2018 , 115, 190-195 | 8 |
| 801 | Development of self-rectifying ZnO thin film resistive switching memory device using successive ionic layer adsorption and reaction method. 2018 , 29, 18733-18741 | 23 |
| 800 | Titanium Dioxide-Based Memristive Thin Film: A Correlation Study Between the Experimental Work and Simulation Program With Integrated Circuit Emphasis Hyperbolic Sine Models. 2018 , 6, 1077-1090 | 1 |
| 799 | An accurate analytical memristor model for SPICE simulators. 2018 , 15, 20180724-20180724 | 3 |
| 798 | Review of memristor devices in neuromorphic computing: materials sciences and device challenges. 2018 , 51, 503002 | 183 |
| 797 | A Hybrid CMOS-Memristor based Programmable Wien Bridge Oscillator. 2018, | 2 |
| 796 | Effect of Mobility and Different Frequency on a MEMRISTOR and Simulation on SPICE. 2018, | |
| 795 | Reliability Analysis of Memristor using Supervised Learning Algorithm. 2018, | 0 |
| 794 | RRAM fabric for neuromorphic and reconfigurable compute-in-memory systems. 2018, | 3 |
| 793 | Portable Memristive Biosensing System as Effective Point-of-Care Device for Cancer Diagnostics. 2018 , | 6 |
| 792 | A novel exposure sensor based on reverse series memristor. 2018 , 278, 25-32 | 3 |
| 791 | Nanoscale Conductive Filament with Alternating Rectification as an Artificial Synapse Building Block. 2018 , 12, 5946-5955 | 24 |
| 790 | Neuromorphic computing with memristive devices. 2018 , 61, 1 | 18 |
| 789 | OTA based high frequency tunable resistorless grounded and floating memristor emulators. 2018 , 92, 124-145 | 33 |
| 788 | . 2018 , 18, 10-13 | 7 |
| 787 | A novel adaptive learning algorithm for low-dimensional feature space using memristor-crossbar implementation and on-chip training. 2018 , 48, 4174-4191 | 5 |

| 786 | A mean-field model of memristive circuit interaction. 2018 , 122, 40008 | 3 |
|--------------------------|---|----------------------|
| 785 | Invited Article: Quantum memristors in quantum photonics. 2018 , 3, 080801 | 18 |
| 784 | Silicon Oxide (SiO): A Promising Material for Resistance Switching?. 2018 , 30, e1801187 | 105 |
| 783 | The mem-inerter: A new mechanical element with memory. 2018 , 10, 168781401877842 | 8 |
| 782 | Investigation of Cortical Signal Propagation and the Resulting Spatiotemporal Patterns in Memristor-Based Neuronal Network. 2018 , 2018, 1-20 | 1 |
| 781 | Comparative analysis of memristor models and memories design. 2018 , 39, 074006 | 13 |
| 780 | . 2018 , 6, 29320-29331 | 3 |
| 779 | Wave digital emulation of general memristors. 2018 , 46, 2011-2027 | 6 |
| 778 | A Clock-Tuned Digital Memristor Emulator. 2018, | |
| | | |
| 777 | A new grounded memristor emulator based on MOSFET-C. 2018 , 91, 143-149 | 40 |
| 777 776 | A new grounded memristor emulator based on MOSFET-C. 2018 , 91, 143-149 A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018 , 95, 249-255 | 15 |
| | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018 | |
| 776 | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018 , 95, 249-255 Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under | 15 |
| 776 775 | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018, 95, 249-255 Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. 2018, 2018, 1-13 | 15 |
| 776 775 774 | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018, 95, 249-255 Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. 2018, 2018, 1-13 Memristor Based on the Contact of Two Metal Balls. 2018, 18, 8045-8052 Handwritten-Digit Recognition by Hybrid Convolutional Neural Network based on HfO Memristive | 15 23 |
| 776 775 774 773 | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018, 95, 249-255 Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. 2018, 2018, 1-13 Memristor Based on the Contact of Two Metal Balls. 2018, 18, 8045-8052 Handwritten-Digit Recognition by Hybrid Convolutional Neural Network based on HfO Memristive Spiking-Neuron. 2018, 8, 12546 Resistive switching and impedance characteristics of M/TiO2½/TiO2/M nano-ionic memristor. 2018 | 15 23 25 |
| 776 775 774 773 | A hyperchaotic memristor system with exponential and discontinuous memductance function. 2018, 95, 249-255 Dynamic Behaviors in Coupled Neuron System with the Excitatory and Inhibitory Autapse under Electromagnetic Induction. 2018, 2018, 1-13 Memristor Based on the Contact of Two Metal Balls. 2018, 18, 8045-8052 Handwritten-Digit Recognition by Hybrid Convolutional Neural Network based on HfO Memristive Spiking-Neuron. 2018, 8, 12546 Resistive switching and impedance characteristics of M/TiO2N/TiO2/M nano-ionic memristor. 2018, 324, 218-225 Dynamic Analysis of a Bistable Bi-Local Active Memristor and Its Associated Oscillator System. 2018 | 15 23 25 21 |

| 768 | Exploring the Dynamics of Real-World Memristors on the Basis of Circuit Theoretic Model Predictions. 2018 , 18, 48-76 | 10 |
|-----|--|----|
| 767 | About Fingerprints of Chua's Memristors. 2018 , 18, 35-47 | 6 |
| 766 | Energy-Efficient CMOS Memristive Synapses for Mixed-Signal Neuromorphic System-on-a-Chip. 2018 , | 3 |
| 765 | The application of non-volatile look-up-table operations based on multilevel-cell of resistance switching random access memory. 2018 , | |
| 764 | Oscillation with 4-Lobe Chua Corsage Memristor. 2018 , 18, 14-27 | 21 |
| 763 | Bifurcation and Periodic Solutions in Memristive Hyperchaotic System. 2018 , 6, 23202-23212 | 3 |
| 762 | An adaptive efficient memristive ink drop spread (IDS) computing system. 2019 , 31, 7733-7754 | 5 |
| 761 | Transition from homogeneous to filamentary behavior in ZnO/ZnO-Al thin films. 2019 , 770, 1200-1207 | 2 |
| 760 | Neuromorphic computation with spiking memristors: habituation, experimental instantiation of logic gates and a novel sequence-sensitive perceptron model. 2019 , 213, 521-551 | 9 |
| 759 | Floating Memristor Employing Single MO-OTA with Hard-Switching Behavior. 2019 , 28, 1950026 | 12 |
| 758 | Adjusting Learning Rate of Memristor-Based Multilayer Neural Networks via Fuzzy Method. 2019 , 38, 1084-1094 | 79 |
| 757 | Enzyme-Based Memory Systems. 2019 , 175-210 | |
| 756 | Resistance switching characteristics and mechanisms of MXene/SiO2 structure-based memristor. 2019 , 115, 063501 | 20 |
| 755 | Input-Aware Flow-Based Computing on Memristor Crossbars With Applications to Edge Detection. 2019 , 9, 580-591 | 8 |
| 754 | Memristor Based Full Adder Circuit for Better Performance. 2019 , 20, 403-410 | 7 |
| 753 | Memristive Element Functional Model for Computer Based Analysis and Hardware Emulation of Pulsed Neurons Adaptive Networks. 2019 , | |
| 752 | Projective Synchronization of Nonidentical Fractional-Order Memristive Neural Networks. 2019 , 2019, 1-11 | 4 |
| 751 | Memristor-Based Loop Filter Design for Phase Locked Loop. 2019 , 9, 24 | 5 |

RRAM fabric for neuromorphic and reconfigurable compute-in-memory systems. **2019**,

| 749 | Self-learning perceptron using a digital memristor emulator. 2019, | O |
|-----|--|----|
| 748 | Extreme Multistability with Hidden Attractors in a Simplest Memristor-Based Circuit. 2019 , 29, 1950086 | 38 |
| 747 | Design and development of memristor-based RRAM. 2019 , 13, 548-557 | 9 |
| 746 | Adaptive Control Synchronization of a Novel Memristive Chaotic System for Secure Communication Applications. 2019 , 4, 30 | 7 |
| 745 | Oscillatory Circuits Built on Physical SBT Memristor. 2019 , 29, 1950097 | 6 |
| 744 | Coexisting Attractors and Multistability in a Simple Memristive Wien-Bridge Chaotic Circuit. 2019 , 21, | 20 |
| 743 | Quasi-state estimation and quasi-synchronization control of quaternion-valued fractional-order fuzzy memristive neural networks: Vector ordering approach. 2019 , 362, 124572 | 19 |
| 742 | From Emerging Memory to Novel Devices for Neuromorphic Systems: Consequences for the Reliability Requirements of Memristive Devices. 2019 , | 2 |
| 741 | Functional Oxides for Photoneuromorphic Engineering: Toward a Solar Brain. 2019 , 6, 1900471 | 14 |
| 740 | A non-local structural derivative model for memristor. 2019 , 126, 169-177 | 4 |
| 739 | Memristor Based Pulse Train Generator. 2019 , 48, 255-261 | 3 |
| 738 | Quantized Single-Ion-Channel Hodgkin-Huxley Model for Quantum Neurons. 2019 , 12, | 5 |
| 737 | Bursting oscillations and bifurcation mechanism in memristor-based ShimizuMorioka system with two time scales. 2019 , 128, 58-70 | 21 |
| 736 | Comment on If it's pinched it's a memristor 2019 , 34, 098001 | 4 |
| 735 | On the Application of a Diffusive Memristor Compact Model to Neuromorphic Circuits. 2019 , 12, | 1 |
| 734 | Review on Various Memristor Models, Characteristics, Potential Applications, and Future Works. 2019 , 20, 289-298 | 29 |
| 733 | Principles of the Functioning of Nonreactive Double Memristor Oscillators. 2019 , 64, 622-628 | О |

| 732 | Transient and steady coexisting attractors in a new memristor-based 4-D chaotic circuit. 2019, 108, 262-274 | 8 |
|-----|--|----|
| 731 | Temperature effect on memristive ion channels. 2019 , 13, 601-611 | 27 |
| 730 | Bifurcation analysis of a TaO memristor model. 2019 , 52, 505304 | 6 |
| 729 | Parameter estimation in a new chaotic memristive system using ions motion optimization. 2019 , 228, 2133-2145 | 4 |
| 728 | Medical image encryption algorithm based on Latin square and memristive chaotic system. 2019 , 78, 35419-35453 | 44 |
| 727 | Origin of Current-Controlled Negative Differential Resistance Modes and the Emergence of Composite Characteristics with High Complexity. 2019 , 29, 1905060 | 25 |
| 726 | Inducing alternating nanoscale rectification in a dielectric material for bidirectional-trigger artificial synapses. 2019 , 37, 061806 | 4 |
| 725 | Dynamical analysis, sliding mode synchronization of a fractional-order memristor Hopfield neural network with parameter uncertainties and its non-fractional-order FPGA implementation. 2019 , 228, 2065-2080 | 19 |
| 724 | Infinitely many hidden attractors in a new fractional-order chaotic system based on a fracmemristor. 2019 , 228, 2185-2196 | 13 |
| 723 | Asymptotic Behavior of Memristive Circuits. 2019 , 21, | 2 |
| 722 | Synchronization in a network of chaotic memristive jerk oscillators. 2019 , 228, 2147-2155 | 1 |
| 721 | A Novel Universal Interface for Constructing Memory Elements for Circuit Applications. 2019 , 66, 4793-4806 | 18 |
| 720 | Complex behaviors in a new 4D memristive hyperchaotic system without equilibrium and its microcontroller-based implementation. 2019 , 228, 2171-2184 | 12 |
| 719 | Analysis and Verification of a Novel Single-Photon Memristor. 2019 , 7, 143185-143189 | |
| 718 | Memristor-based Systems: Nonlinearity, Dynamics and Applications. 2019 , 228, 1903-1906 | 2 |
| 717 | Realizing an Isotropically Coercive Magnetic Layer for Memristive Applications by Analogy to Dry Friction. 2019 , 12, | 4 |
| 716 | New band-pass and band-stop filters with three memory devices. 2019 , | 1 |
| 715 | On the First Single-Nonlinearity Seven-Term Memristor-Based Chaotic Snap System: A Line Equilibrium and Coexisting Hidden Attractors. 2019 , | |

| 714 | Resistance Switching Statistics and Mechanisms of Pt Dispersed Silicon Oxide-Based Memristors. 2019 , 10, | 3 |
|-----|--|-----|
| 713 | Complex dynamical behavior in memristorfapacitor systems. 2019 , 98, 517-537 | 9 |
| 712 | Analog Weights in ReRAM DNN Accelerators. 2019, | 21 |
| 711 | Finite-time synchronization of memristive neural networks with parameter uncertainties via aperiodically intermittent adjustment. 2019 , 534, 122258 | 5 |
| 710 | A Current Attenuator for Efficient Memristive Crossbars Read-Out. 2019, | 2 |
| 709 | Two-Dimensional Brain Microtubule Structures Behave as Memristive Devices. 2019 , 9, 12398 | 13 |
| 708 | Analog simulator of integro-differential equations with classical memristors. 2019 , 9, 12928 | 10 |
| 707 | A new memristive model with complex variables and its generalized complex synchronizations with time lag. 2019 , 15, 102619 | 2 |
| 706 | Regulating firing rates in a neural circuit by activating memristive synapse with magnetic coupling. 2019 , 98, 971-984 | 13 |
| 705 | Bifurcation analysis of a fractional order time-delay Chualicircuit based on coupled memristors. 2019 , 33, 1950366 | 1 |
| 704 | . 2019 , 7, 127703-127712 | 1 |
| 703 | The Memristor: Theory and Realization. 2019 , 11-24 | |
| 702 | Theoretical framework of the thermal memristor via a solid-state phase change material. 2019 , 125, 025109 | 7 |
| 701 | An accurate and generic window function for nonlinear memristor models. 2019 , 18, 640-647 | 16 |
| 700 | Nonvolatile Memories Based on Graphene and Related 2D Materials. 2019 , 31, e1806663 | 145 |
| 699 | A Novel Memductor-Based Chaotic System and Its Applications in Circuit Design and Experimental Validation. 2019 , 2019, 1-17 | 4 |
| 698 | A novel memristive 6D hyperchaotic autonomous system with hidden extreme multistability. 2019 , 120, 100-115 | 72 |
| 697 | Dynamical investigation and chaotic associated behaviors of memristor Chuall circuit with a non-ideal voltage-controlled memristor and its application to voice encryption. 2019 , 107, 183-191 | 15 |

| 696 | Laser-Fabricated Reduced Graphene Oxide Memristors. 2019 , 9, | 32 |
|-----|--|-----|
| 695 | A third-order memristive Wien-bridge circuit and its integrable deformation. 2019 , 93, 1 | 5 |
| 694 | An efficient Verilog-A memristor model implementation: simulation and application. 2019 , 18, 1055-1064 | 7 |
| 693 | Modeling framework and comparison of memristive devices and associated STDP learning windows for neuromorphic applications. 2019 , 52, 393002 | 4 |
| 692 | General fractional order mem-elements mutators. 2019 , 90, 211-221 | 15 |
| 691 | Transient dynamics of pulse-driven memristors in the presence of a stable fixed point. 2019 , 114, 113561 | 3 |
| 690 | Parasitic Memcapacitor Effects on HP TiO2 Memristor Dynamics. 2019 , 7, 59825-59831 | 11 |
| 689 | Nanoionic Resistive-Switching Devices. 2019 , 5, 1900184 | 27 |
| 688 | An excellent pH-controlled resistive switching memory device based on self-colored (C7H7O4N)n extracted from a lichen plant. 2019 , 7, 7593-7600 | 26 |
| 687 | Semi-Explicit Composition Methods in Memcapacitor Circuit Simulation. 2019 , 10, 37-52 | 10 |
| 686 | Recent Progress in Synaptic Devices Paving the Way toward an Artificial Cogni-Retina for Bionic and Machine Vision. 2019 , 1, 1900003 | 26 |
| 685 | On the Fractional-Order 3D ? Memristor-LC Circuit Network Model. 2019 , 47, 537-550 | 1 |
| 684 | Towards Oxide Electronics: a Roadmap. 2019 , 482, 1-93 | 160 |
| 683 | Flexible Transparent Organic Artificial Synapse Based on the Tungsten/Egg Albumen/Indium Tin Oxide/Polyethylene Terephthalate Memristor. 2019 , 11, 18654-18661 | 48 |
| 682 | . 2019 , 66, 2606-2614 | 7 |
| 681 | Dynamical attractors of memristors and their networks. 2019 , 125, 20002 | 17 |
| 680 | Recent advances in physical reservoir computing: A review. 2019 , 115, 100-123 | 400 |
| 679 | Self-sustained oscillation in a memristor circuit. 2019 , 96, 1267-1281 | 3 |

| 678 | Multi-Panel, On-Single-Chip Memristive Biosensing. 2019 , 19, 5769-5774 | 2 |
|-----|---|----|
| 677 | Creation and circuit implementation of two-to-eight ling chaotic attractors using a 3D memristor-based system. 2019 , 47, 686-701 | 8 |
| 676 | Finite-Time Synchronization of Coupled Memrisive Neural Network via Robust Control. 2019 , 7, 31820-31831 | 2 |
| 675 | PWL Window Function for Nonlinear Memristive Systems. 2019, | |
| 674 | Tunnel current model of asymmetric MIM structure levying various image forces to analyze the characteristics of filamentary memristor. 2019 , 125, 1 | 6 |
| 673 | Exponential Synchronization of Stochastic Memristive Neural Networks with Time-Varying Delays. 2019 , 50, 459-475 | 14 |
| 672 | Resistive switching and synaptic properties modifications in gallium-doped zinc oxide memristive devices. 2019 , 12, 1946-1955 | 14 |
| 671 | Introduction to new memory paradigms: memristive phenomena and neuromorphic applications. 2019 , 213, 11-27 | 17 |
| 670 | Unconventional Inorganic-Based Memristive Devices for Advanced Intelligent Systems. 2019 , 4, 1900080 | 9 |
| 669 | A memristor meminductor-based chaotic system with abundant dynamical behaviors. 2019, 96, 765-788 | 39 |
| 668 | . 2019 , 40, 643-646 | 13 |
| 667 | Exponential synchronization of memristive Cohen-Grossberg neural networks with hybrid time delays. 2019 , | |
| 666 | Experimental verification of volt-ampere characteristic curve for a memristor-based chaotic circuit. 2019 , 46, 13-24 | 6 |
| 665 | Coexistence of Bipolar and Unipolar Memristor Switching Behavior. 2019 , | 1 |
| 664 | RF Single-Pole Double-Throw Switch Based on Two-Port Memistor. 2019 , 524, 012008 | |
| 663 | Memristive Grid for Maze Solving. 2019 , | |
| 662 | A Verilog-A based RRAM Switching Model for Simulation and Analysis. 2019 , | |
| 661 | Implementation of 1T1R-based OxRRAM Memristor Model for Circuit Design and Simulation. 2019, | |

| 660 | ComPRIMe: A Compiler for Parallel and Scalable ReRAM-based In-Memory Computing. 2019, | 1 |
|-----|--|----|
| 659 | Memristor CNN Model for Image Denoising. 2019 , | 2 |
| 658 | Nano Resistive Memory (Re-RAM) Devices and their Applications. 2019 , 58, 248-270 | 12 |
| 657 | Programmable Emulator of Genuinely Floating Memristive Switching Devices. 2019, | 1 |
| 656 | Enhanced memristor-based MNNs performance on noisy dataset resulting from memristive stochasticity. 2019 , 13, 704-709 | 2 |
| 655 | The Nonlinear Bipolar and Unipolar Switching Behavior of a Memristor. 2019, | |
| 654 | Comparison of Different Memristor Emulators on Low-Pass Filter Circuit. 2019, | 0 |
| 653 | Characterization and Application of PVDF and Its Copolymer Films Prepared by Spin-Coating and Langmuir-Blodgett Method. 2019 , 11, | 47 |
| 652 | Memristive plasticity in artificial electrical synapses via geometrically reconfigurable, gramicidin-doped biomembranes. 2019 , 11, 18640-18652 | 9 |
| 651 | Chaotic Circuit based on Memristive Elements. 2019, | 2 |
| 650 | A Practical HfO2-based OxRAM Memristor Model Suitable for Circuit Design and Simulation. 2019, | 1 |
| 649 | Two-terminal floating-gate transistors with a low-power memristive operation mode for analogue neuromorphic computing. 2019 , 2, 596-605 | 40 |
| 648 | Tuning of ionic mobility to improve the resistive switching behavior of Zn-doped CeO. 2019 , 9, 19387 | 13 |
| 647 | Field-induced p-n transition in yttria-stabilized zirconia. 2019 , 9, 18538 | 10 |
| 646 | Charge transport mechanism in SiNx-based memristor. 2019 , 115, 253502 | 13 |
| 645 | Redox-based memristive devices for new computing paradigm. 2019 , 7, 110903 | 28 |
| 644 | Effects of Initial Conditions and Circuit Parameters on the SBT-Memristor-Based Chaotic Circuit. 2019 , 29, 1950171 | 6 |
| 643 | Inkjet assisted fabrication of planar biocompatible memristors 2019 , 9, 35998-36004 | 7 |

| 642 | Electromigration-induced resistance switching in indented Al microstrips. 2019 , 21, 113015 | 4 |
|-----|---|----|
| 641 | Optical Properties of Composite Materials Based on Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-Phenylenevinylene] and Titanium Dioxide in the Mid-IR Spectral Range. 2019 , 53, 1999-2001 | |
| 640 | A general method to describe forgetting effect of memristors. 2019 , 383, 942-948 | 7 |
| 639 | High-frequency floating memristor emulator and its experimental results. 2019 , 13, 292-302 | 22 |
| 638 | Modeling triplet spike timing dependent plasticity using a hybrid TFT-memristor neuromorphic synapse. 2019 , 64, 184-191 | 6 |
| 637 | Resistive switching in sub-micrometric ZnO polycrystalline films. 2019 , 30, 065707 | 15 |
| 636 | Memristive networks: From graph theory to statistical physics. 2019 , 125, 10001 | 3 |
| 635 | A Simple Floating MOS-Memristor for High-Frequency Applications. 2019 , 27, 1186-1195 | 28 |
| 634 | Bienenstock, Cooper, and Munro Learning Rules Realized in Second-Order Memristors with Tunable Forgetting Rate. 2019 , 29, 1807316 | 38 |
| 633 | Neuronal communication: Stochastic neuron dynamics and multi-synchrony states. 2019 , 100, 75-85 | 3 |
| 632 | Resistive switching in reactive electrode-based memristor: engineering bulk defects and interface inhomogeneity through bias characteristics. 2019 , 34, 035014 | 1 |
| 631 | A Demonstration of Implication Logic Based on Volatile (Diffusive) Memristors. 2019 , 66, 1033-1037 | 7 |
| 630 | Two-Terminal Network Elements. 2019 , 1-62 | |
| 629 | Dynamic Nonlinear Networks. 2019 , 199-314 | |
| 628 | SPICE Modeling of Insulator Metal Transition: Model of the Critical Temperature. 2019 , 7, 18-25 | 5 |
| 627 | Memristive Properties of GaN HEMTs Containing Deep-Level Traps. 2019 , 256, 1800387 | 3 |
| 626 | Memristor devices for neural networks. 2019 , 52, 023003 | 48 |
| 625 | Stability analysis of memristor-based time-delay fractional-order neural networks. 2019 , 323, 117-127 | 19 |

| 624 | A simple test for ideal memristors. 2019 , 52, 01LT01 | 16 |
|-----------------|---|-----------------|
| 623 | Memristor Emulator Circuit Using Multiple-Output OTA and Its Experimental Results. 2019 , 28, 1950166 | 12 |
| 622 | Control of Memristor-Based Simplest Chaotic Circuit with One-State Controllers. 2019 , 28, 1950007 | 9 |
| 621 | A plethora of behaviors in a memristor based Hopfield neural networks (HNNs). 2019 , 7, 36-52 | 36 |
| 620 | Lagrange Stability and Finite-Time Stabilization of Fuzzy Memristive Neural Networks With Hybrid Time-Varying Delays. 2020 , 50, 2959-2970 | 41 |
| 619 | On the validity of memristor modeling in the neural network literature. 2020 , 121, 52-56 | 16 |
| 618 | Effects of Variable-Order Passive Circuit Element in Chua Circuit. 2020 , 39, 2293-2306 | О |
| 617 | . 2020 , 7, 1431-1440 | 36 |
| 616 | Dissipative Systems. 2020 , 263-355 | 1 |
| 615 | On the design and analysis of a compact array with 1T1R RRAM memory element. 2020 , 102, 27-37 | 3 |
| 614 | Hysteretic Dynamics, Space Magnetization and Offset Boosting in a Third-Order Memristive System. 2020 , 44, 413-429 | 8 |
| 613 | Dynamical Analysis of Novel Memristor Chaotic System and DNA Encryption Application. 2020 , 44, 449-460 | 3 |
| 612 | Optimal quasi-synchronization of fractional-order memristive neural networks with PSOA. 2020 , 32, 9667-968 | 32 ₇ |
| 611 | Review and comparative study of I-V characteristics of different memristor models with sinusoidal input. 2020 , 107, 349-375 | 6 |
| 610 | Passivity and passification of quaternion-valued memristive neural networks. 2020 , 43, 2032-2044 | 3 |
| 609 | A Stateful Logic Family Based on a New Logic Primitive Circuit Composed of Two Antiparallel Bipolar Memristors. 2020 , 2, 1900082 | 19 |
| 608 | Finite-time synchronization of memristive Cohen@rossberg neural networks with time delays. 2020 , 377, 159-167 | 13 |
| 60 7 | Memristive autapse involving magnetic coupling and excitatory autapse enhance firing. 2020 , 379, 296-304 | 9 |

(2020-2020)

| 606 | Exponential State Estimation for Stochastically Disturbed Discrete-Time Memristive Neural Networks: Multiobjective Approach. 2020 , 31, 3168-3177 | 5 |
|-----|---|----|
| 605 | Design of resistive random access memory cell and its architecture. 2020 , 26, 1325-1332 | 4 |
| 604 | Application and Modeling of a Novel 4D Memristive Chaotic System for Communication Systems. 2020 , 39, 3320-3349 | 9 |
| 603 | Improved resistive switching behavior of multiwalled carbon nanotube/TiO2 nanorods composite film by increased oxygen vacancy reservoir. 2020 , 108, 104907 | 13 |
| 602 | Dynamical Analysis of Memcapacitor Chaotic System and Its Image Encryption Application. 2020 , 18, 1242-1249 | 8 |
| 601 | A high precision write/read circuits for memristors using digital input/output interfaces. 2020 , 96, 104694 | 5 |
| 600 | Reachable set bounding for a class of memristive complex-valued neural networks with disturbances. 2020 , 385, 368-377 | 5 |
| 599 | Finite time impulsive synchronization of fractional order memristive BAM neural networks. 2020 , 384, 213-224 | 28 |
| 598 | Aluminum promoted sulfidation of ammonium perrhenate: Presence of nanobattery in the ReS2 composite material based memcapacitor. 2020 , 392, 123745 | 3 |
| 597 | An efficient memristor crossbar architecture for mapping Boolean functions using Binary Decision Diagrams (BDD). 2020 , 71, 125-133 | 9 |
| 596 | 2D Layered Materials for Memristive and Neuromorphic Applications. 2020 , 6, 1901107 | 53 |
| 595 | Multilayer Metal-Oxide Memristive Device with Stabilized Resistive Switching. 2020 , 5, 1900607 | 54 |
| 594 | An Optoneuronic Device with Realistic Retinal Expressions for Bioinspired Machine Vision. 2020 , 2, 1900115 | 6 |
| 593 | Simulations of Memristors Using the Poincar Map Approach. 2020 , 67, 963-971 | 4 |
| 592 | Artificial Optoelectronic Synapses Based on Ferroelectric Field-Effect Enabled 2D Transition Metal Dichalcogenide Memristive Transistors. 2020 , 14, 746-754 | 91 |
| 591 | Experimental Body-Input Three-Stage DC Offset Calibration Scheme for Memristive Crossbar. 2020, | 1 |
| 590 | Forced synchronization of an oscillator with a line of equilibria. 2020 , 229, 2215-2224 | 2 |
| 589 | Chaotic circuit with OTA based memristor on image cryptology. 2020 , 127, 153490 | 7 |

| 588 | Memristors Based on 2D Materials as an Artificial Synapse for Neuromorphic Electronics. 2020 , 32, e2002092 | 81 |
|-----|--|----|
| 587 | Electrochromic and bipolar memory switching properties of novel Eu(III)-polymer of multidentate Schiff日 base ligand. 2020 , 31, 20345-20359 | 1 |
| 586 | Monitoring PSA levels as chemical state-variables in metal-oxide memristors. 2020 , 10, 15281 | 3 |
| 585 | A Phasor Analysis Method for Charge-Controlled Memory Elements. 2020 , 30, 2030041 | 2 |
| 584 | Electrical response of plants to environmental stimuli: A short review and perspectives for meteorological applications. 2020 , 1, 100053 | 1 |
| 583 | A New Fixed-Time Stability Criterion and Its Application to Synchronization Control of Memristor-Based Fuzzy Inertial Neural Networks with Proportional Delay. 2020 , 52, 1291-1315 | 1 |
| 582 | Memristor emulator has nonlinear load for reduction of ferroresonance in a single-phase transformer. 2020 , 47, 87-96 | |
| 581 | The missing mem-inerter and extended mem-dashpot found. 2020 , 101, 835-856 | 7 |
| 580 | Patterning Titanium Dioxide Based Memristors Using Electron Beam Lithography. 2020, | О |
| 579 | Nanoionic Redox based Resistive Switching Devices as Synapse for Bio-inspired Computing Architectures: A Survey. 2020 , | О |
| 578 | Investigation of Inherent Capacitive Effects in Linear Memristor Model. 2020 , 13, 3423 | 3 |
| 577 | Comments on Chaotic oscillator based on memcapacitor and meminductor (Nonlinear Dyn, DOI: 10.1007/s11071-019-04781-5). 2020 , 102, 2945-2950 | 2 |
| 576 | Multiply-Accumulate Enhanced BDD-Based Logic Synthesis on RRAM Crossbars. 2020, | 1 |
| 575 | Multibit optoelectronic memory using graphene/diamond (carbon sp2-sp3) heterojunctions and its arithmetic functions. 2020 , 117, 092103 | 2 |
| 574 | Memristor Behavior under Dark and Violet Illumination in Thin Films of ZnO/ZnO-Al Multilayers. 2020 , | |
| 573 | Analyzing Fault Tolerance Behaviour in Memristor-based Crossbar for Neuromorphic Applications. 2020 , | 1 |
| 572 | Projective Synchronization of a Fifth-order Memristor-Based Chaotic Circuit. 2020, | |
| 571 | Acoustic Monitoring of the Psycho-Emotional State of Operational Personnel in the Management of High-Risk Objects Based on Neuromorphic Self-Learning Systems. 2020 , | О |

(2020-2020)

| 570 | Resistive Switching in Non-Stoichiometric Germanosilicate Glass Films Containing Ge Nanoclusters. 2020 , 9, 2103 | 8 |
|-----|---|----|
| 569 | A physical memristor based Muthuswamy-Chua-Ginoux system. 2020 , 10, 19206 | 14 |
| 568 | Locally Active Memristor with Three Coexisting Pinched Hysteresis Loops and Its Emulator Circuit. 2020 , 30, 2050184 | 26 |
| 567 | Experimental evaluation of the dynamic route map in the reset transition of memristive ReRAMs. 2020 , 139, 110288 | 12 |
| 566 | Hyperchaotic Oscillation in the Deformed Rikitake Two-Disc Dynamo System Induced by Memory Effect. 2020 , 2020, 1-10 | 3 |
| 565 | A Qualitative Study of Materials and Fabrication Methodologies for Two Terminal Memristive Systems. 2020 , 22, 1628-1637 | 1 |
| 564 | A new fractional-order hyperchaotic memristor oscillator: Dynamic analysis, robust adaptive synchronization, and its application to voice encryption. 2020 , 383, 125310 | 35 |
| 563 | Modeling of Discharge Lamp Characteristics by Using Floating Memristor Circuit Emulator with Tunable Threshold. 2020 , 48, 138-147 | 1 |
| 562 | Exponential synchronization of complex-valued memristor-based delayed neural networks via quantized intermittent control. 2020 , 404, 317-328 | 8 |
| 561 | Nonlinear dynamics in non-volatile locally-active memristor for periodic and chaotic oscillations. 2020 , 29, 110503 | 3 |
| 560 | Organic small molecule-based RRAM for data storage and neuromorphic computing. 2020 , 8, 12714-12738 | 30 |
| 559 | Nonlinear ion drift-diffusion memristance description of TiO2 RRAM devices. 2020 , 2, 2514-2524 | 3 |
| 558 | The memristive system behavior of a diac. 2020 , 19, 1344-1355 | |
| 557 | An Experimental Proof that Resistance-Switching Memory Cells are not Memristors. 2020 , 6, 2000010 | 13 |
| 556 | A chaotic circuit based on a physical memristor. 2020 , 138, 109990 | 25 |
| 555 | Performance Comparison of Various Memristor Emulators on a Phase Shifting Oscillator Circuit. 2020 , | |
| 554 | A Novel Floating/Grounded Meminductor Emulator. 2020 , 29, 2050247 | 17 |
| 553 | Analytical modeling of a Y2O3-based memristive system for synaptic applications. 2020 , 53, 305101 | 2 |

| 552 | Analysis of large bandgap dielectrics by dual plasmon-photon excitation. 2020 , 53, 25LT02 | 4 |
|-----|---|-----|
| 551 | Enhanced Electrical Performance of Structurally Engineered Memristor Devices with Multi-Stacked Indium Zinc Oxide Films. 2020 , 217, 1900967 | 4 |
| 550 | Complex Dynamics of a Novel Chaotic System Based on an Active Memristor. 2020 , 9, 410 | 4 |
| 549 | Vector multiplications using memristive devices and applications thereof. 2020 , 221-254 | 1 |
| 548 | Modeling a helical fluid inerter system with time-invariant mem-models. 2020 , 27, e2579 | 2 |
| 547 | A memristive chaotic oscillator with controllable amplitude and frequency. 2020 , 139, 110000 | 19 |
| 546 | Synchronization of Periodic Self-Oscillators Interacting via Memristor-Based Coupling. 2020 , 30, 2050096 | 5 |
| 545 | Initial boosting phenomenon of a fractional-order hyperchaotic system based on dual memristors. 2020 , 34, 2050191 | 8 |
| 544 | Mem-models and state event location algorithm for a prototypical aerospace system. 2020 , 100, 203-224 | 2 |
| 543 | Nonlinear Dynamics, Switching Kinetics and Physical Realization of the Family of Chua Corsage Memristors. 2020 , 9, 369 | 4 |
| 542 | Memristive magnetic coupling feedback induces wave-pattern transition. 2020 , 100, 647-658 | 1 |
| 541 | New grounded and floating memristor emulators using OTA and CDBA. 2020 , 48, 1154-1179 | 17 |
| 540 | Neuromorphic nanoelectronic materials. 2020 , 15, 517-528 | 207 |
| 539 | Electronic mechanism for resistive switching in metal/insulator/metal nanodevices. 2020 , 53, 295302 | 1 |
| 538 | A comprehensive review on emerging artificial neuromorphic devices. 2020 , 7, 011312 | 180 |
| 537 | Nonstationary distributions and relaxation times in a stochastic model of memristor. 2020 , 2020, 024003 | 44 |
| 536 | Mem-models as building blocks for simulation and identification of hysteretic systems. 2020 , 100, 973-998 | 16 |
| 535 | Hidden dynamics in a fractional-order memristive Hindmarsh R ose model. 2020 , 100, 891-906 | 23 |

(2020-2020)

| 534 | Electrolyte-gated transistors for synaptic electronics, neuromorphic computing, and adaptable biointerfacing. 2020 , 7, 011307 | 79 |
|-----|---|----|
| 533 | A Novel Characterization and Performance Measurement of Memristor Devices for Synaptic Emulators in Advanced Neuro-Computing. 2020 , 11, | 3 |
| 532 | Simplified sol-gel processing method for amorphous TiOx Memristors. 2020 , 44, 52-58 | 1 |
| 531 | Multidimensional scaling locus of memristor and fractional order elements. 2020 , 25, 147-157 | 16 |
| 530 | Nanoscale resistive switching devices for memory and computing applications. 2020 , 13, 1228-1243 | 53 |
| 529 | Flux-Controlled Memristor Emulator and Its Experimental Results. 2020 , 28, 1050-1061 | 24 |
| 528 | Simple design of memristive counters and their applications in automatic irrigation system. 2020 , 14, 35-40 | 2 |
| 527 | Properties of Fractional-Order Magnetic Coupling. 2020 , 13, 1539 | 2 |
| 526 | Tuning the analog and digital resistive switching properties of TiO2 by nanocompositing Al-doped ZnO. 2020 , 115, 105110 | 13 |
| 525 | Compliance Current-Controlled Conducting Filament Formation in Tantalum Oxide-Based RRAM Devices with Different Top Electrodes. 2020 , 2, 1154-1161 | 22 |
| 524 | A novel memristor-based dynamical system with multi-wing attractors and symmetric periodic bursting. 2020 , 30, 043110 | 11 |
| 523 | Broken Symmetry in a Memristive Chaotic Oscillator. 2020 , 8, 69222-69229 | 5 |
| 522 | A new hidden attractor hyperchaotic memristor oscillator with a line of equilibria. 2020, 229, 1279-1288 | 4 |
| 521 | A novel simple chaotic circuit based on memristorfhemcapacitor. 2020 , 100, 2859-2876 | 61 |
| 520 | Memristor switching and integration in ensembles of silicon nanocrystallites. 2020, 10, 045205 | |
| 519 | Perspective on photonic memristive neuromorphic computing. 2020 , 1, | 39 |
| 518 | Memristive Element with Multiple Internal State Variables Functional Model for Computer Based Analysis and Hardware Emulation of Pulsed Neural Adaptive Networks. 2020 , | O |
| 517 | Simple Double-Scroll Chaotic Circuit Based on Meminductor. 2020 , 29, 2050048 | 1 |

| 516 | Equilibrium Propagation for Memristor-Based Recurrent Neural Networks. 2020 , 14, 240 | 4 |
|-----|--|----|
| 515 | Simple charge controlled floating memcapacitor emulator using DXCCDITA. 2020 , 104, 37-46 | 16 |
| 514 | Extended Robust Exponential Stability of Fuzzy Switched Memristive Inertial Neural Networks With Time-Varying Delays on Mode-Dependent Destabilizing Impulsive Control Protocol. 2021 , 32, 308-321 | 12 |
| 513 | Variation resilient low-power memristor-based synchronous flip-flops: design and analysis. 2021 , 27, 525-538 | 5 |
| 512 | Importance of the Window Function Choice for the Predictive Modelling of Memristors. 2021 , 68, 2167-2171 | 4 |
| 511 | Design of Memristor with Hard-Switching Behavior Employing Only One CCCII and One Capacitor. 2021 , 30, 2150151 | 2 |
| 510 | Recent advances in resistive random access memory based on lead halide perovskite. 2021 , 3, 293-315 | 29 |
| 509 | Complete synchronization of chaos in systems with nonlinear inertial coupling. 2021 , 142, 110459 | 9 |
| 508 | Electronically Controllable Memcapacitor Circuit With Experimental Results. 2021, 68, 1443-1447 | 14 |
| 507 | Carbon nanotube field effect transistor (CNTFET) operational transconductance amplifier (OTA) based design of high frequency memristor emulator. 2021 , 34, e2827 | 2 |
| 506 | Memristor-Based Edge Computing of ShuffleNetV2 for Image Classification. 2021 , 40, 1701-1710 | 3 |
| 505 | Memristive biophysical neuron models forming an excitatorylhhibitory neural network for modeling PING rhythm generation. 2021 , 20, 681-708 | |
| 504 | Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. 2021, 51, 3739-3750 | 13 |
| 503 | Probabilistic memristive networks: Application of a master equation to networks of binary ReRAM cells. 2021 , 142, 110385 | 6 |
| 502 | TiC-Based MXene Oxide Nanosheets for Resistive Memory and Synaptic Learning Applications. 2021 , 13, 5216-5227 | 24 |
| 501 | Brain-like intelligence. 2021 , 537-593 | O |
| 500 | A Novel Erbium-Doped Fiber Laser Chaotic Circuit Based on Memristor and Its Circuit Implementation. 2021 , 9, 70300-70312 | |
| 499 | Memristiv effect on W/Ti/p-Si structure: Aging phenomena and one of the origin of barrier inhomogeneity. 2021 , 46, 7033-7039 | |

| 498 | Implementation and Parametric Analysis of Memristor Models [Comparative Study. 2021, | 1 |
|-----|--|----|
| 497 | Neuristor based electronically controllable logic gates. 2021 , 106, 707-711 | 2 |
| 496 | Dynamic Pinning Synchronization of Fuzzy-dependent-switched Coupled Memristive Neural Networks with Mismatched Dimensions on Time Scales. 2021 , 1-1 | 1 |
| 495 | . 2021 , 9, 69860-69875 | 12 |
| 494 | Modeling and Analysis of a Three-Terminal-Memristor-Based Conservative Chaotic System. 2021 , 23, | 7 |
| 493 | Connecting mem-models with classical theories. 2021 , 103, 1321-1344 | 1 |
| 492 | Memristor, mem-systems and neuromorphic applications: a review. 2021 , 265-285 | |
| 491 | The fourth circuit element was found: a brief history. 2021 , 3-15 | |
| 490 | Implementing memristor emulators in hardware. 2021 , 17-40 | |
| 489 | Multiple Mismatched Synchronization for Coupled Memristive Neural Networks With Topology-Based Probability Impulsive Mechanism on Time Scales. 2021 , PP, | O |
| 488 | Facile synthesis of nickel cobaltite quasi-hexagonal nanosheets for multilevel resistive switching and synaptic learning applications. 2021 , 13, | 17 |
| 487 | Quasi-Synchronization of Fractional-Order Complex-Valued Memristive Recurrent Neural Networks with Switching Jumps Mismatch. 2021 , 53, 865-891 | 2 |
| 486 | Emerging Opportunities for 2D Semiconductor/Ferroelectric Transistor-Structure Devices. 2021 , 33, e2005620 | 20 |
| 485 | Analysis of Fourth-order Chaotic Circuit Based on the Memristor Model for Wireless Communication. 1-8 | O |
| 484 | The Fourier signatures of memristive hysteresis. 2021 , 54, 245302 | 2 |
| 483 | Synaptic learning functionalities of inverse biomemristive device based on trypsin for artificial intelligence application. 2021 , 11, 1100-1110 | 7 |
| 482 | Stochastic resonance in a metal-oxide memristive device. 2021 , 144, 110723 | 30 |
| 481 | Complex Dynamics in a Memristive Diode Bridge-Based MLC Circuit: Coexisting Attractors and Double-Transient Chaos. 2021 , 31, 2150049 | 2 |

| 480 | SPICE Behaviors of Double Memristor Circuits Using Cosine Window Function. 2021, 9, | О |
|-----|---|----|
| 479 | Design and Analyses of a Food Protein Sensing System Based on Memristive Properties. 2021 , 101-118 | 1 |
| 478 | Spin-Torque Memristors Based on Perpendicular Magnetic Tunnel Junctions for Neuromorphic Computing. 2021 , 8, 2004645 | 15 |
| 477 | Bifunctional nanoparticulated nickel ferrite thin films: Resistive memory and aqueous battery applications. 2021 , 201, 109493 | 6 |
| 476 | Dynamic behavior of fractional-order memristive time-delay system and image encryption application. 2150271 | 3 |
| 475 | DYNAMICAL ANALYSIS OF THE MEMINDUCTOR-BASED CHAOTIC SYSTEM WITH HIDDEN ATTRACTOR. 2021 , 29, 2140020 | 1 |
| 474 | An internally-controlled memristor-based amplitude shift keying modulator. 2021, ahead-of-print, | |
| 473 | Capacitive effects can make memristors chaotic. 2021 , 144, 110699 | 9 |
| 472 | Memristive model of the Hodgkin-Huxley axon. 2021, | |
| 471 | A new memductance-based fractional-order chaotic system and its fixed-time synchronisation. 2021 , 145, 110782 | 3 |
| 470 | Spreading Operation Frequency Ranges of Memristor Emulators via a New Sine-Based Method. 2021 , 29, 617-630 | 1 |
| 469 | On Local Activity and Edge of Chaos in a NaMLab Memristor. 2021 , 15, 651452 | 28 |
| 468 | A New Memristive Chaotic System with a Plane and Two Lines of Equilibria. 2021, 31, 2150066 | 1 |
| 467 | Capacitive coupled non-zero IIV and type-II memristive properties of the NiFe2O4IIiO2 nanocomposite. 2021 , 125, 105646 | 12 |
| 466 | Memristive Stateful Logic for Edge Boolean Computers. 2021 , 3, 2000278 | 10 |
| 465 | Equilibrium analysis of Mott memristor reveals criterion for negative differential resistance. 2021 , 118, 223505 | 2 |
| 464 | Memcapacitor and Meminductor Circuit Emulators: A Review. 2021 , 10, 1225 | 8 |
| 463 | Edge of Chaos in Memristor CNN with Hysteresis and Applications in Pattern Formation. 2021 , | 1 |

| 462 | Nonparametric bifurcation mechanism in 2-D hyperchaotic discrete memristor-based map. 2021 , 104, 4601 | 7 |
|---|--|-------------|
| 461 | On the Thermal Models for Resistive Random Access Memory Circuit Simulation. 2021, 11, | 14 |
| 460 | System-Theoretic Methods for Designing Bio-Inspired Mem-Computing Memristor Cellular Nonlinear Networks. 2021 , 3, | 4 |
| 459 | Charge storage in metal-chalcogenide bilayer junctions. 2021 , 54, 295105 | О |
| 458 | Resistive Switching Characteristics Improved by Visible-Light Irradiation in a CsAgBiBr-Based Memory Device. 2021 , 11, | 5 |
| 457 | Implementation of Binary Stochastic STDP Learning Using Chalcogenide-Based Memristive Devices. 2021 , | 1 |
| 456 | Simulation of memristive synapses and neuromorphic computing on a quantum computer. 2021, 3, | 2 |
| 455 | Practical demonstration of a RRAM memory fuse. 2021 , 49, 2363 | O |
| 454 | Performance Improvement and Comparative Analysis of Memristive Emulator Networks. 2021, | |
| | | |
| 453 | Local Learning in Memristive Neural Networks for Pattern Reconstruction. 2021 , | |
| 453 452 | Local Learning in Memristive Neural Networks for Pattern Reconstruction. 2021, The Birth of a New Field: Memristive Sensors. A Review. 2021, 21, 12370-12378 | 6 |
| | | 6 |
| 452 | The Birth of a New Field: Memristive Sensors. A Review. 2021 , 21, 12370-12378 Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells | |
| 45 ² 45 ¹ | The Birth of a New Field: Memristive Sensors. A Review. 2021 , 21, 12370-12378 Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells using FinFET transistors. 2021 , 36, 075027 | O |
| 45 ² 45 ¹ 45 ⁰ | The Birth of a New Field: Memristive Sensors. A Review. 2021, 21, 12370-12378 Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells using FinFET transistors. 2021, 36, 075027 A Simple Parallel Chaotic Circuit Based on Memristor. 2021, 23, The Role of the Internal Capacitance in Organic Memristive Device for Neuromorphic and Sensing | 0 |
| 452 451 450 449 | The Birth of a New Field: Memristive Sensors. A Review. 2021, 21, 12370-12378 Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells using FinFET transistors. 2021, 36, 075027 A Simple Parallel Chaotic Circuit Based on Memristor. 2021, 23, The Role of the Internal Capacitance in Organic Memristive Device for Neuromorphic and Sensing Applications. 2100494 | 0 1 8 |
| 45 ² 45 ¹ 45 ⁰ 449 448 | The Birth of a New Field: Memristive Sensors. A Review. 2021, 21, 12370-12378 Design and simulation of high-speed and low-power memcapacitor-based nonvolatile static cells using FinFET transistors. 2021, 36, 075027 A Simple Parallel Chaotic Circuit Based on Memristor. 2021, 23, The Role of the Internal Capacitance in Organic Memristive Device for Neuromorphic and Sensing Applications. 2100494 Lead-free halide perovskites, beyond solar cells and LEDs. 2021, 3, 032014 Novel programmable single pulse generator for producing pulse widths in different time scales. | o 1 8 |

| 444 | Fractional-order memristive neural synaptic weighting achieved by pulse-based fracmemristor bridge circuit. 2021 , 22, 862-876 | 1 |
|-----|--|----|
| 443 | The impact of memristive coupling initial states on travelling waves in an ensemble of the FitzHughNagumo oscillators. 2021 , 147, 110923 | O |
| 442 | Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. 2021, 32, | 6 |
| 441 | A 2D Discrete Chaotic Memristive Map and Its Application in Robot Path Planning. 2021, | |
| 440 | Deterministic modeling of the diffusive memristor. 2021 , 31, 073111 | 1 |
| 439 | Electronically tunable high frequency single output OTA and DVCC based meminductor. 2021 , 109, 47-55 | 2 |
| 438 | A tristable locally-active memristor and its complex dynamics. 2021 , 148, 111038 | 4 |
| 437 | Polarity Reversal Effect of a Memristor From the Circuit Point of View and Insights Into the Memristor Fuse. 2021 , 2, | O |
| 436 | Organic Memory and Memristors: From Mechanisms, Materials to Devices. 2100432 | 17 |
| 435 | Recent Advances in Dimensionality Reduction Modeling and Multistability Reconstitution of Memristive Circuit. 2021 , 2021, 1-18 | 1 |
| 434 | Dynamic analysis of fractional-order memristive chaotic system with time delay and its application in color image encryption based on DNA encoding. 2021 , 230, 1785-1803 | O |
| 433 | Subcritical Andronov-Hopf scenario for systems with a line of equilibria. 2021 , 31, 073102 | O |
| 432 | A novel memristive chaotic system without any equilibrium point. 2021 , 79, 133-142 | 3 |
| 431 | About memristive effects in M-Ba(Sr)TiO3-M thin film structure. 117-127 | |
| 430 | Controllable resistive switching of STO:Ag/SiO2-based memristor synapse for neuromorphic computing. 2021 , | 8 |
| 429 | A simple chaotic circuit with magnetic flux-controlled memristor. 2021 , 230, 1723-1736 | 4 |
| 428 | Universal Cellular Computing on the Edge of Chaos. 2021, | |
| 427 | A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. 2021 , 11, | 2 |

| 426 | Cascade discrete memristive maps for enhancing chaos. | О |
|-----|---|----|
| 425 | Embedding any desired number of coexisting attractors in memristive system. | 1 |
| 424 | High Frequency Electronically Tunable Floating Memristor Emulators employing VDGA and Grounded Capacitor. 1 | 0 |
| 423 | Memristive Devices and Circuits. 2022 , 1-17 | |
| 422 | Active emulation circuits of fractional-order memristive elements and its applications. 2021, 138, 153855 | 1 |
| 421 | A cryogenic memory array based on superconducting memristors. 2021 , 119, 082602 | 3 |
| 420 | Role of magnetic skyrmions for the solution of the shortest path problem. 2021 , 532, 167977 | 4 |
| 419 | Design and multistability analysis of five-value memristor-based chaotic system with hidden attractors. | 2 |
| 418 | Electronically controllable neuristor based logic gates and their applications. 2021, 138, 153834 | 1 |
| 417 | Revisiting the memristor concept within basic circuit theory. 2021 , 49, 3488 | 2 |
| 416 | Emerging Artificial Neuron Devices for Probabilistic Computing. 2021 , 15, 717947 | 2 |
| 415 | Stochastic analysis of the electromagnetic induction effect on a neuron action potential dynamics. 2021 , 105, 3585-3602 | 1 |
| 414 | Inkjet-printed bipolar resistive switching device based on Ag/ZnO/Au structure. 2021 , 119, 112103 | 0 |
| 413 | Nonlinearity in Memristors for Neuromorphic Dynamic Systems. 2100049 | 12 |
| 412 | Stochastic model of memristor based on the length of conductive region. 2021 , 150, 111131 | 7 |
| 411 | Bifurcation and bursting oscillations in 2D non-autonomous discrete memristor-based hyperchaotic map. 2021 , 150, 111064 | 5 |
| 410 | A Neural Network Approach towards Generalized Resistive Switching Modelling. 2021 , 12, | 1 |
| 409 | Multideck light-induced reset in a transparent bilayer synaptic device. 2021 , 39, 053202 | 1 |

| 408 | Hidden Attractor and Multistability in a Novel Memristor-Based System Without Symmetry. 2021 , 31, 2150168 | 5 |
|-----|---|----|
| 407 | A mixed-kernel, variable-dimension memristive CNN for electronic nose recognition. 2021 , 461, 129-136 | 4 |
| 406 | A memristor-based circuit design of pavlov associative memory with secondary conditional reflex and its application. 2021 , 463, 341-354 | 2 |
| 405 | A novel chaotic circuit with coexistence of multiple attractors and state transition based on two memristors. 2021 , 152, 111363 | 6 |
| 404 | Fuzzy memristive networks. 2021 , 461-483 | 0 |
| 403 | Resistorless Memristor Emulator Using CFTA and Its Experimental Verification. 2021 , 9, 64065-64075 | 10 |
| 402 | Nanoscale Memristor. 2021 , 444-444 | |
| 401 | Memristor-Based Electronically Tunable Unity-Gain SallenKey Filters. 2021, 1141-1152 | O |
| 400 | Memristor-Based Edge Computing of Blaze Block for Image Recognition. 2020, PP, | 6 |
| 399 | Bipolar resistive switching in biomaterials: case studies of DNA and melanin-based bio-memristive devices. 2021 , 299-323 | |
| 398 | . 2021, 1-1 | |
| 397 | Memristors: A New Nanoscale CNN Cell. 2010 , 87-115 | 7 |
| 396 | Nanoelectronics and Hardware Security. 2014 , 105-123 | 2 |
| 395 | Emerging Memory Technology Opportunities and Challenges. 2014 , 83-89 | 1 |
| 394 | Memristor-Based Resistive Computing. 2014 , 301-325 | 2 |
| 393 | Fourth Fundamental Circuit Element: SPICE Modeling and Simulation. 2014 , 105-162 | 12 |
| 392 | Application of the Volterra Series Paradigm to Memristive Systems. 2014 , 163-191 | 9 |
| 391 | A Bernoulli Cell-Based Investigation of the Non-Linear Dynamics in Log-Domain Structures. 2000 , 21-40 | 4 |

| 390 | Oxide Based Memristive Nanodevices. 2014 , 219-256 | 1 |
|-----|--|----|
| 389 | The Fourth Element. 2014 , 1-13 | 4 |
| 388 | Cellular Nonlinear Networks with Memristor Synapses. 2014 , 267-291 | 5 |
| 387 | Memristive in Situ Computing. 2014 , 413-428 | 2 |
| 386 | Aftermath of Finding the Memristor. 2014 , 15-19 | 2 |
| 385 | Modeling Memristor-Based Circuit Networks on Crossbar Architectures. 2014 , 505-535 | 3 |
| 384 | Computing Shortest Paths in 2D and 3D Memristive Networks. 2014 , 537-552 | 10 |
| 383 | Computing Image and Motion with 3-D Memristive Grids. 2014 , 553-583 | 5 |
| 382 | Resistance Switching Memories Are Memristors. 2014 , 21-51 | 5 |
| 381 | Memristor Cellular Automata and Memristor Discrete-Time Cellular Neural Networks. 2014 , 649-713 | 5 |
| 380 | The Detectors Used in the First Radios Were Memristors. 2014 , 53-66 | 3 |
| 379 | Memristor, Hodgkin-Huxley, and Edge of Chaos. 2014 , 67-94 | 7 |
| 378 | Why Are Memristor and Memistor Different Devices?. 2014 , 95-112 | 6 |
| 377 | Synapse as a Memristor. 2014 , 113-128 | 6 |
| 376 | Memristors and Memristive Devices for Neuromorphic Computing. 2014 , 129-149 | 6 |
| 375 | Bio-inspired Neural Networks. 2014, 151-172 | 1 |
| 374 | Hybrid Dynamical Systems for Memristor Modelling. 2015 , 87-101 | 2 |
| 373 | Memristors as Synapses in Artificial Neural Networks: Biomimicry Beyond Weight Change. 2014 , 135-150 | 1 |

| 372 | Memristor Fundamentals. 2016 , 1-8 | 2 |
|-----|---|----|
| 371 | TaOx-/TiO2-Based Synaptic Devices. 2017 , 73-95 | 3 |
| 370 | A Programmable Memristor Potentiometer and Its Application in the Filter Circuit. 2017, 326-335 | 2 |
| 369 | Waveform Classification by Memristive Reservoir Computing. 2017, 457-465 | 5 |
| 368 | 4-D Memristive Chaotic System with Different Families of Hidden Attractors. 2018 , 403-432 | 1 |
| 367 | Modeling Memristor B ased Circuit Networks on Crossbar Architectures. 2019 , 973-1004 | 3 |
| 366 | Computing Image and Motion with 3-D Memristive Grids. 2019 , 1177-1210 | О |
| 365 | Memristor Cellular Automata and Memristor Discrete-Time Cellular Neural Networks. 2019 , 1289-1361 | 5 |
| 364 | Resistance Switching Memories are Memristors. 2019 , 197-230 | 7 |
| 363 | Memristor-Based Phase-Lead Controller Circuit Design. 2013 , 309-318 | 2 |
| 362 | DAEs in Circuit Modelling: A Survey. 2013 , 97-136 | 4 |
| 361 | Hyperchaotic memristive system with hidden attractors and its adaptive control scheme. 2017 , 90, 1681-1694 | 21 |
| 360 | A discrete memristor model and its application in Hħon map. 2020 , 137, 109873 | 41 |
| 359 | Bursting dynamics in parametrically driven memristive Jerk system. 2020 , 66, 327-334 | 8 |
| 358 | The memristive effect as a novelty in drug monitoring. 2017 , 9, 9676-9684 | 19 |
| 357 | Pinched hysteresis loops in non-linear resonators. 2021 , 15, 88-93 | 2 |
| 356 | Non-fragile set-membership estimation for sensor-saturated memristive neural networks via weighted try-once-discard protocol. 2020 , 14, 1671-1680 | 10 |
| 355 | Memristor dynamics involved in cells communication for a 2D non-linear network. 2020 , 14, 427-434 | 5 |

(2014-2021)

| 354 | Simulation and experimental implementations of memcapacitor based multi-stable chaotic oscillator and its dynamical analysis. 2021 , 96, 015209 | 5 |
|-----|--|----|
| 353 | Memristor bridge circuit for neural synaptic weighting. 2012, | 5 |
| 352 | A New Memristor Based Hyperchaotic System. 2012 , | 1 |
| 351 | Inverse memrsitor emulator active Realizations. 2020, | 2 |
| 350 | DESIGN AND CIRCUIT IMPLEMENTATION FOR A NOVEL CHARGE-CONTROLLED CHAOTIC MEMRISTOR SYSTEM. 2015 , 5, 251-261 | 3 |
| 349 | AHaH computing-from metastable switches to attractors to machine learning. 2014 , 9, e85175 | 23 |
| 348 | Memristive TiO: Synthesis, Technologies, and Applications. 2020 , 8, 724 | 8 |
| 347 | Memristive and Memory Impedance Behavior in a Photo-Annealed ZnOEGO Thin-Film Device. 2020 , 9, 287 | 7 |
| 346 | Evolution of Nonvolatile Resistive Switching Memory Technologies: The Related Influence on Hetrogeneous Nanoarchitectures. 2010 , 11, 243-248 | 10 |
| 345 | An introduction to the memristor a valuable circuit element in bioelectricity and bioimpedance. 2012 , 3, 20-28 | 20 |
| 344 | Frequency dependent rectifier memristor bridge used as a programmable synaptic membrane voltage generator. 2013 , 4, 23-32 | 4 |
| 343 | Dynamical analysis of memristor chaotic oscillator. 2010 , 59, 3785 | 56 |
| 342 | Analysis and implementation of memristor chaotic circuit. 2011 , 60, 120502 | 23 |
| 341 | A novel meminductor emulator based on analog circuits. 2013 , 62, 158501 | 24 |
| 340 | A simplest parallel chaotic system of memristor. 2013 , 62, 190506 | 15 |
| 339 | Equivalent circuit analysis model of charge-controlled memristor and its circuit characteristics. 2013 , 62, 218401 | 9 |
| 338 | Memristive chaotic circuit based on modified SC-CNNs. 2014 , 63, 010502 | 13 |
| 337 | A universal emulator of mem-elements. 2014 , 63, 098501 | 3 |

| 336 | Design and simulation of a memristor chaotic circuit based on current feedback op amp. 2014 , 63, 180502 | 5 |
|-----|--|----|
| 335 | Research progress of memristors and memristive mechanism. 2014 , 63, 187301 | 7 |
| 334 | A fractional-order memristor model and the fingerprint of the simple series circuits including a fractional-order memristor. 2015 , 64, 238401 | 11 |
| 333 | Memristor-based Lorenz hyper-chaotic system and its circuit implementation. 2016 , 65, 190502 | 14 |
| 332 | Fundamental circuit element and nonvolatile memory based on magnetoelectric effect. 2018 , 67, 127501 | 3 |
| 331 | A 2D Hyperchaotic Discrete Memristive Map and Application in Reservoir Computing. 2021 , 1-1 | O |
| 330 | On addressing the similarities between STDP concept and synaptic/memristive coupled neurons by realizing of the memristive synapse based HR neurons. 2021 , | 1 |
| 329 | Memristive Computation-Oriented Chaos and Dynamics Control. 2021 , 9, | O |
| 328 | Integrating spin-based technologies with atomically controlled van der Waals interfaces. 2021 , 51, 350-350 | 2 |
| 327 | Characteristic analysis of volatile avalanche diode threshold switching for bionic nerve synapse applications. 2021 , 11, 21051 | |
| 326 | Reset Switching Statistics of TaOx-Based Memristor. 2022 , 187-195 | |
| 325 | Can we have an optical memristor using metamaterials?. 2009, | |
| 324 | The mathematical model and properties of memristor with border constraint. 2010 , 59, 6673 | 8 |
| 323 | Circuit Components Based on New Materials: The Reality of Multitechnology System on Systems Hyperintegration. 2010 , 11, 106-111 | |
| 322 | Basic properties and applications of the memristor circuit. 2012 , 61, 118101 | 13 |
| 321 | Progress of memristor modulated by interfacial effect. 2012 , 61, 217306 | 10 |
| 320 | Fabric Mapping and Placement of Field Programmable Stateful Logic Array. 2012 , 49, 209-218 | |
| 319 | Brain Neurodynamic and Tensor Calculus. 2013 , 107-158 | |

(2015-2013)

| 318 | Memristive Excitable Automata: Structural Dynamics, Phenomenology, Localizations and Conductive Pathways. 2013 , 379-398 | О |
|-----|---|---|
| 317 | Nanosession: Neuromorphic Concepts. 197-206 | |
| 316 | Introduction. 2014 , 1-14 | 2 |
| 315 | Silicon Nanowire-Based Memristive Devices. 2014 , 253-280 | |
| 314 | A Memristor Circuit Using Basic Elements with Memory Capability. 2014 , 117-124 | 2 |
| 313 | Spike-Timing-Dependent-Plasticity with Memristors. 2014 , 211-247 | 2 |
| 312 | Memory Effects in Multi-terminal Solid State Devices and Their Applications. 2014, 429-472 | |
| 311 | Influence of the cross section area on the conductive characteristics of titanium oxide memristor. 2014 , 63, 048401 | 4 |
| 310 | Shortest Path Computing Using Memristor-Based Circuits and Cellular Automata. 2014, 398-407 | 1 |
| 309 | Organic Memristive Devices and Neuromorphic Circuits. 2014 , 389-411 | O |
| 308 | Resistive Switching in MIM Capacitors Using Porous Anodic Alumina. 2014 , 29-32 | |
| 307 | Memristor-based Memory Cell with Less Noise Margins and Storing Non-Binary Data. 2014 , 183-187 | |
| 306 | Memristor SPICE Model Simulation and Device Hardware Correlation. 2014 , 169-174 | |
| 305 | PSPICE circuit simulation for electrical characteristic analysis of the memristor. 2014 , 15, 1051-1058 | |
| 304 | A Reconfigurable Multiplier Architecture Based on Memristor-CMOS Technology. 2014 , 51, 64-71 | |
| 303 | Encyclopedia of Nanotechnology. 2015 , 1-10 | |
| 302 | A digital-analog hybrid random number generator based on memristor. 2015 , 64, 240503 | 1 |
| 301 | Introduction. 2015 , 1-12 | |

| 300 | A Novel Four-Dimensional Memristive Hyperchaotic System with Its Analog Circuit Implementation. 2015 , 157-165 | 1 |
|-----|--|---|
| 299 | Linearization Effect of Weight Programming about Time in Memristor Bridge Synapse. 2015 , 52, 80-87 | |
| 298 | Encyclopedia of Nanotechnology. 2016 , 1357-1365 | |
| 297 | Nanodevices. 2016 , 155-198 | |
| 296 | Novel Nanoelectronic Device Applications of Nanocrystals and Nanoparticles. 2016, 461-500 | |
| 295 | Simulink Model for Piece Wise Linear Approximation of Memristor. 2016 , 4, 386-386 | 1 |
| 294 | Theory, Modeling and Design of Memristor-Based Min-Max Circuits. 2017 , 187-205 | 1 |
| 293 | Memristor in a Nutshell. 2017 , 159-180 | |
| 292 | Experimental Demonstration of Firing Rate Neural Networks Based on Metal-Oxide Memristive Crossbars. 2017 , 113-134 | O |
| 291 | Flexoelectric Effect Impact on the Hysteretic Dynamics of the Local Electromechanical Response of Mixed Ionic-Electronic Conductors. 2017 , 62, 326-334 | 1 |
| 290 | Memristor Equipped Error Detection Technique. 2018, 183-191 | 1 |
| 289 | The Future of Nonvolatile Memory. 2017 , 177-184 | |
| 288 | Literature Survey. 2018 , 7-32 | |
| 287 | From Branly Coherer to Chua Memristor. 2018 , 1-33 | |
| 286 | Differential Equations. 2018, 33-64 | |
| 285 | Efficient Mini-Batch Training on Memristor Neural Network Integrating Gradient Calculation and Weight Update. 2018 , E101.A, 1092-1100 | 1 |
| 284 | The Detectors Used in the First Radios were Memristors. 2019 , 231-245 | |
| 283 | Cellular Nonlinear Networks with Memristor Synapses. 2019 , 637-660 | |

| 282 | Spiking in Memristor Networks. 2019 , 767-789 | 1 |
|-----|--|---|
| 281 | Memory Effects in Multi-terminal Solid State Devices and Their Applications. 2019 , 1021-1064 | |
| 280 | Bio-inspired Neural Networks. 2019 , 595-617 | |
| 279 | Why are Memristor and Memistor Different Devices?. 2019 , 247-265 | |
| 278 | Memristive In Situ Computing. 2019, 1005-1020 | 1 |
| 277 | The Art and Science of Constructing a Memristor Model: Updated. 2019 , 267-285 | 3 |
| 276 | Organic Memristive Devices and Neuromorphic Circuits. 2019 , 571-593 | |
| 275 | Synapse as a Memristor. 2019 , 351-367 | 1 |
| 274 | Behavior of Multiple Memristor Circuits. 2019 , 913-940 | |
| 273 | Aftermath of Finding the Memristor. 2019 , 159-163 | 1 |
| 272 | Memristor, Hodgkin-Huxley, and Edge of Chaos. 2019 , 287-313 | 2 |
| 271 | Memristor Bridge-Based Artificial Neural Weighting Circuit. 2019 , 619-635 | |
| 270 | Switching Synchronization and Metastable States in 1D Memristive Networks. 2019, 955-971 | |
| 269 | Memristors and Memristive Devices for Neuromorphic Computing. 2019 , 369-389 | 2 |
| 268 | The Fourth Element. 2019 , 1-14 | |
| 267 | Spike-Timing-Dependent-Plasticity with Memristors. 2019 , 429-467 | 1 |
| 266 | Three Fingerprints of Memristor. 2019 , 165-196 | 1 |
| 265 | Everything You Wish to Know About Memristors but Are Afraid to Ask. 2019 , 89-157 | 7 |

| 264 | Brains Are Made of Memristors. 2019 , 315-350 | 1 |
|-----|---|---|
| 263 | If It Pinched It a Memristor. 2019 , 15-88 | O |
| 262 | Computing Shortest Paths in 2D and 3D Memristive Networks. 2019 , 1161-1176 | |
| 261 | MemristorThe New Computing Element for Data-Centric Real-Time Image Processing. 2020, 49-60 | 1 |
| 260 | Memristor-Based Circuit Design Approaches and Future Challenges. 2020 , 31-41 | |
| 259 | Science and Technological Understanding of Nano-ionic Resistive Memories (RRAM). 2019 , 9, 444-461 | |
| 258 | Memristor-based series voltage regulators. 2019 , 70, 465-472 | 1 |
| 257 | Investigation of Multi-Level Properties of TaOx-based Memristive Devices and Optimized Programming Scheme for On-Line Training. 2020 , | |
| 256 | SPICE Model of Current Polarity-Dependent Piecewise Linear Window Function for Memristors. 1-1 | 2 |
| 255 | Designing Memristor-Based Timing Circuits and Performance Comparison with CMOS Counterparts. 2021 , 269-279 | |
| 254 | Ge quantum wire memristor. 2020 , 31, 445204 | 2 |
| 253 | Broken symmetry and dynamics of a memristive diodes bridge-based Shinriki oscillator. 2021 , 588, 126562 | 2 |
| 252 | Design and verification of novel silicon-controlled-rectifier-memristor based on standard CMOS process. 2020 , 36, 015003 | |
| 251 | Fiber Memristors. 2020 , 327-347 | 1 |
| 250 | Memristor, der Speicherwiderstand. 2020 , 165-195 | |
| 249 | Design Flow for Hybrid CMOS/Memristor SystemsPart I: Modeling and Verification Steps. 2021 , 1-14 | 1 |
| 248 | FCS Based Memcapacitor Emulator Circuit. 112-117 | 2 |
| 247 | Implementation of a memristor-based 4D chaotic oscillator and its nonlinear control. 1 | 2 |

| 246 | Lvy noise effects on Josephson junctions. 2021 , 153, 111531 | 1 |
|-----|--|----|
| 245 | Memristor Theory and Concepts. 2021 , 1-8 | |
| 244 | Memristor Models and Emulators: A Literature Review. 2021 , 9-18 | |
| 243 | Extended Memristor Devices. 2021 , 373-386 | |
| 242 | Fundamental Properties of Mem-Elements. 2021 , 27-97 | |
| 241 | Random time delay analysis of Nb2O5 and OTS memristors. 2021 , | O |
| 240 | Memristive Network-based Artificial Fish Swarm Algorithm. 2021, | |
| 239 | A Novel True Random Number Generator in Near Field Communication as Memristive Wireless Power Transmission. 2021 , 4, 764-783 | |
| 238 | A new simple chaotic circuit based on memristor and meminductor. 2021 , 136, 1 | 1 |
| 237 | Charge-Driven Transtive Devices via Electric Field Control of Magnetism in a Helimagnet. 2021 , 16, | |
| 236 | Recent Advances in Halide Perovskite-Based Nonvolatile Resistive Random-Access Memory. 2022 , 51, 434 | 2 |
| 235 | Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. 2021 , 12, 100192 | 8 |
| 234 | Finite-/Fixed-Time Synchronization of Memristor Chaotic Systems and Image Encryption Application. 2021 , 68, 4957-4969 | 7 |
| 233 | A Double-Memristor Hyperchaotic Oscillator With Complete Amplitude Control. 2021 , 68, 4935-4944 | 7 |
| 232 | Bifurcations underlying different excitability transitions modulated by excitatory and inhibitory memristor and chemical autapses. 2021 , 153, 111611 | O |
| 231 | How to Build a Memristive Integrate-and-Fire Model for Spiking Neuronal Signal Generation. 2021 , 68, 4837-4850 | 9 |
| 230 | Memristor modeling: challenges in theories, simulations, and device variability. 2021 , 9, 16859-16884 | 17 |
| 229 | A Survey of Memristors and Its Applications. 2021 , 403-428 | |

| 228 | A Dynamic System Approach to Spiking Second Order Memristor Networks. 2021 , 1-14 | О |
|-----|--|---|
| 227 | A Compact Modeling Methodology for Experimental Memristive Devices. 2021 , 1-1 | |
| 226 | Memristive Chaotic Systems with Hidden Attractors. 2021 , 239-271 | |
| 225 | An Accurate, Error-Tolerant, and Energy-Efficient Neural Network Inference Engine Based on SONOS Analog Memory. 2022 , 1-14 | 2 |
| 224 | Control the stability in chaotic circuit coupled by memristor in different branch circuits. 2022, 145, 154074 | 1 |
| 223 | Application of graphene oxide memristor in Chua's chaotic circuit. 2020, | |
| 222 | X-Controlled Memristive Devices for Automatic Gain Control in RC Oscillators. 2020, | |
| 221 | Fixed-Time Synchronization of Fifth-Order Memristor Chaotic Systems. 2020 , | O |
| 220 | A class of offset boostable 3-D memristive system. 2021 , | O |
| 219 | CMOS Transistor-Based Memristor Emulator Circuit Design for High Frequency Applications. 2021, | 1 |
| 218 | Investigation of Power Consumption Effect of Various Memristor Emulators on a Logic Gate. | О |
| 217 | Locally Fixed-Time Stabilization and \$H_{infty}\$ Control for Memristive Port-Controlled Hamiltonian Systems. 2021 , | |
| 216 | A Novel Fully Floating Memristor Emulator Using OTA and Passive Elements. 2021, | 1 |
| 215 | Design Consideration of Meminductor Emulator Circuit. 2021 , | |
| 214 | Memristor-based time-delay hyperchaotic system with circuit simulation and image encryption. | 1 |
| 213 | Six Decades of Research on 2D Materials: Progress, Dead Ends, and New Horizons. 2022 , 1-1 | 1 |
| 212 | Memristive Structure-Based Chaotic System for PRNG. 2022 , 14, 68 | 2 |
| 211 | Variability Estimation in Resistive Switching Devices, a Numerical and Kinetic Monte Carlo Perspective. | |

210 The fourth fundamental circuit element: principle and applications.

| 209 | Comprehensive study on unipolar RRAM charge conduction and stochastic features: a simulation approach. 2022 , 55, 155104 | 1 |
|-----|---|---|
| 208 | Oscillatory Circuits With a Real Non-Volatile Stanford Memristor Model. 2022, 10, 13650-13662 | |
| 207 | Feedback Control for Passivity of Memristor-Based Multiple Weighted Coupled Neural Networks. 2022 , 2022, 1-9 | |
| 206 | Obtaining Fuzzy Membership Function of Clusters With the Memristor Hardware Implementation and On-Chip Learning. 2022 , 1-18 | O |
| 205 | Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing 2022 , 14, 58 | 8 |
| 204 | A tristable locally active memristor and its application in Hopfield neural network. 1 | 5 |
| 203 | Symmetry Breaking-Induced Dynamics for a Fourth-Order Memristor-Based Chaotic Circuit. 1 | |
| 202 | Variability estimation in resistive switching devices, a numerical and kinetic Monte Carlo perspective. 2022 , 257, 111736 | 5 |
| 201 | Physics-based compact modeling of electro-thermal memristors: Negative differential resistance, local activity, and non-local dynamical bifurcations. 2022 , 9, 011308 | 7 |
| 200 | The effect of external stimuli on the performance of memristive oxides. 2022 , 361-398 | |
| 199 | Introduction to non-volatile memory. 2022 , 1-32 | 1 |
| 198 | Using Self-heating Resistors as a case study for Memristor Compact Modelling. 2022, 1-1 | 1 |
| 197 | Complex Oscillations of Chua Corsage Memristor with Two Symmetrical Locally Active Domains. 2022 , 11, 665 | 2 |
| 196 | Amorphous Boron Nitride Memristive Device for High-Density Memory and Neuromorphic Computing Applications 2022 , | 6 |
| 195 | A Mathematical analysis: from Memristor to Fracmemristor. | 1 |
| 194 | Experimental photonic quantum memristor. 2022 , 16, 318-323 | 5 |
| 193 | A floating CCCII and DDCC based memcapacitor circuit with electronically controllable behavior. 2022 , 15, 93-105 | |

| 192 | A memristive RBF neural network and its application in unsupervised medical image segmentation. 1 | О |
|-----|---|---|
| 191 | From Memristor-Modeled Jerk System to the Nonlinear Systems with Memristor. 2022 , 14, 659 | 2 |
| 190 | Estimation of Memristor Hysteresis Curve with Fuzzy Logic Designer. | |
| 189 | A simple chaotic circuit based on memristor and its analyzation of bifurcation. 1 | 1 |
| 188 | The Rich Dynamics of Memristive Devices With Non-Separable Nonlinear Response. 2022 , 69, 1802-1806 | 0 |
| 187 | History Dependence in a Chemical Reaction Network Enables Dynamic Switching 2022 , e2107523 | |
| 186 | Different Control Strategies for Fixed-Time Synchronization of Inertial Memristive Neural Networks. 1 | 0 |
| 185 | A Switched Capacitor Memristor Emulator Using Stochastic Computing. 2022 , 10, 39 | O |
| 184 | A novel conservative system with hidden flows evolved from the simplest memristive circuit 2022 , 32, 033111 | 0 |
| 183 | Tellurium-Based Artificial Neuron: Capturing Biological Complexity While Keeping It Simple. 2200094 | 1 |
| 182 | Memristive and biological synaptic behavior in transition metal dichalcogenide-WS2 nanostructures: A review. 2022 , | |
| 181 | Memristor-Based Multiplier and Squarer of Some Numbers of the form 101- m. 1 | 1 |
| 180 | Hodgkin-Huxley Equations Implies Edge of Chaos Kernel. | 3 |
| 179 | Temperature-Frequency Study of Germanium Selenide Memristors with a Self-Directed Current-Conducting Channel. 2022 , 51, 59-67 | |
| 178 | A 3D memristive chaotic system with conditional symmetry. 2022 , 158, 111992 | 2 |
| 177 | Integrability analysis of Muthuswamy@hua@inoux system. 2022 , 434, 133212 | |
| 176 | Connectome of memristive nanowire networks through graph theory 2022 , 150, 137-148 | 0 |
| 175 | Modeling of Memcapacitor with Anelastic Dielectric via Two-Port Capacitor. 2021 , | |

| 174 | Advancing in-memory Arithmetic Based on CMOS-integrable Memristive Crossbar Structures. 2021 , 1, 80-89 | |
|-----|--|---|
| 173 | A Twollevel Modeling Methodology for Memristive Devices. 2021, | |
| 172 | Python-LTspice Co-Simulation to Train Neural Networks with Memristive Synapses to Learn Logic Gate Operations. 2021 , | |
| 171 | Global minimization via classical tunneling assisted by collective force field formation 2021 , 7, eabh1542 | Ο |
| 170 | New high frequency memristorless and resistorless meminductor emulators using OTA and CDBA. 2022 , 47, 1 | |
| 169 | Local-Activity and Simultaneous Zero-Hopf Bifurcations Leading to Multistability in a Memristive Circuit. 2021 , 31, | 2 |
| 168 | A Chaotic Oscillator Based on Meminductor, Memcapacitor, and Memristor. 2021 , 2021, 1-16 | 3 |
| 167 | Entangled quantum memristors. 2021 , 104, | 1 |
| 166 | An Improved Memristor Model Based on the Electrochemical Metallization Effect as a Synapse for Biomimetic Applications. 2022 , 259, 2100379 | 1 |
| 165 | Synchronization of a Memristor Chaotic System and Image Encryption. 2021 , 31, | Ο |
| 164 | Finite-Difference Time-Domain Solution of a Memristor Fed by a Transmission Line. 2021 , 4, 27-35 | |
| 163 | Artificial Neural Networks. 2022 , 55-96 | |
| 162 | Versatile Functionality of Four-Terminal TiO2⊠ Memristive Devices as Artificial Synapses for Neuromorphic Computing. | Ο |
| 161 | Design and multistability analysis of memristor-based jerk hyperchaos system with controllable offset. 1 | Ο |
| 160 | Local stability and Hopf bifurcations analysis of the Muthuswamy-Chua-Ginoux system. 1 | 1 |
| 159 | A single-T chaotic circuit based on a physical memristor. | 1 |
| 158 | Experimental validation of state equations and dynamic route maps for phase change memristive devices 2022 , 12, 6488 | 3 |
| 157 | Chaos in a memristive oscillator with six lines of equilibria. | O |

| 156 | Graph Coloring via Locally-Active Memristor Oscillatory Networks. 2022, 12, 22 | 5 |
|-----|---|---|
| 155 | Edge of Chaos in Memristor Cellular Nonlinear Networks. 2022 , 10, 1288 | 1 |
| 154 | Presentation_1.pdf. 2020 , | |
| 153 | Vectorization Calculation Method of the Fractional-Order Mem-Elements. 2022 , 106-111 | |
| 152 | 3-D Physical Electro-Thermal Modeling of Nanoscale YDIMemristors for Synaptic Application. 2022 , 1-6 | |
| 151 | DNA Memristors and Their Application to Reservoir Computing 2022, | |
| 150 | Modeling of the generic memcapacitors using higher-order multi-ports. 2022 , 106497 | 1 |
| 149 | Theory and Technology of Memristive Devices. 1-35 | |
| 148 | FAMCroNA: Fault Analysis in Memristive Crossbars for Neuromorphic Applications. | |
| 147 | A novel four-lobe corsage memristor with tristability and its complex dynamics. 1 | O |
| 146 | Emerging Memory Structures for VLSI Circuits. 1-28 | |
| 145 | A memristor-based circuit design and implementation for blocking on Pavlov associative memory. | O |
| 144 | Memristive Brain-like Computing. 2022, | |
| 143 | Oscillators Based on Fractional-Order Memory Elements. 2022 , 6, 283 | O |
| 142 | Reproduce the biophysical function of chemical synapse by using a memristive synapse. | 3 |
| 141 | Physical Compact Model for Three-Terminal SONOS Synaptic Circuit Element. 2200070 | 1 |
| 140 | Empirical Characterization of ReRAM Devices Using Memory Maps and a Dynamic Route Map. 2022 , 11, 1672 | 1 |
| 139 | Discrete Memristor and Discrete Memristive Systems. 2022 , 24, 786 | 2 |

| 138 | Coexistence of hyperchaos with chaos and its control in a diode-bridge memristor based MLC circuit with experimental validation. | 0 |
|-----|--|---|
| 137 | An experimental and simulation study of the role of thermal effects on variability in TiN/Ti/HfO2/W resistive switching nonlinear devices. 2022 , 160, 112247 | 1 |
| 136 | Compact Modeling and SPICE Simulation of GCMO-Based Resistive Switching Devices. 2022, 1-4 | |
| 135 | Energy-Based Memristor Networks for Pattern Recognition in Vision Systems. 2022 , 53-63 | |
| 134 | Organic Memristive Devices and Organic Electrochemical Transistors as Promising Elements for Bio-inspired Systems. 2022 , 273-295 | |
| 133 | Edge-of-Chaos in CNN Models with Memristor Synapses. 2022 , 3-20 | |
| 132 | Understanding the fundamentals of TiO2 surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. 2022 , 38, 91-149 | 3 |
| 131 | Grounded Memristor Emulator Using Single Active Block. 2022 , | O |
| 130 | Memristive functionality based on viscous magnetization dynamics. 2022 , 131, 233903 | |
| 129 | Symplectic Dynamics and Simultaneous Resonance Analysis of Memristor Circuit Based on Its van der Pol Oscillator. 2022 , 14, 1251 | O |
| 128 | Temperature, detriment or advantage for memory emergence: the case of ZnO. | 1 |
| 127 | An inverted spike-rate-dependent plasticity due to charge traps in a metal-oxide memristive device. | 1 |
| 126 | Antimonotonicity, Hysteresis and Coexisting Attractors in a Shinriki Circuit with a Physical Memristor as a Nonlinear Resistor. 2022 , 11, 1920 | O |
| 125 | Discrete-Time Memristor Model for Enhancing Chaotic Complexity and Application in Secure Communication. 2022 , 24, 864 | |
| 124 | Humidity-Enabled Organic Artificial Synaptic Devices with Ultrahigh Moisture Resistivity. 2200320 | |
| 123 | Memristor, Memcapacitor, Meminductor: Models and Experimental Circuit Emulators. 2022 , 12, 8683-8687 | |
| 122 | Toward Reflective Spiking Neural Networks Exploiting Memristive Devices. 16, | 1 |
| 121 | Synchronization of Traveling Waves in Memristively Coupled Ensembles of FitzHughNagumo Neurons With Periodic Boundary Conditions. 10, | |

| 120 | Simulation platform for pattern recognition based on reservoir computing with memristor networks. 2022 , 12, | 0 |
|-----|--|---|
| 119 | Fractional-order circuit design with hybrid controlled memristors and FPGA implementation. 2022 , 153, 154268 | 1 |
| 118 | Analysis of a Three-Dimensional Non-autonomous Chaotic Circuit with a Thermistor as a Physical Memristor. 2022 , 217-230 | |
| 117 | Resistorless Memristor Emulators: Floating, Grounded using OTA and VDBA for high frequency applications. 2022 , 1-1 | 1 |
| 116 | Mutual Transformation of Flux-Controlled and Charge-Controlled Memristors. 2022, 10, 68307-68318 | 1 |
| 115 | The Ubiquitous Memristive Response in Solids. 2022 , 1-6 | 1 |
| 114 | Comparative Analysis of Reconfigurable Platforms for Memristor Emulation. 2022, 15, 4487 | |
| 113 | A Two-capacitor Problem with a Memcapacitor and a Conformal Fractional-Order Capacitor Put Together. | |
| 112 | Image encryption based on a novel memristive chaotic system, Grain-128a algorithm and dynamic pixel masking. 2022 , 33, 534-550 | |
| 111 | Convergence of a Class of Delayed Neural Networks with Real Memristor Devices. 2022 , 10, 2439 | O |
| 110 | Complex Dynamics and Effects of Memristive Load Using Current-Mode-Controlled in Buck Converter. 2022 , 2022, 1-13 | |
| 109 | Quasi-Stabilization Control of Quaternion-Valued Fractional-Order Memristive Neural Networks. | |
| 108 | Nanoionic memristive phenomena in metal oxides: the valence change mechanism. 2021, 70, 155-349 | 5 |
| 107 | Synchronization of fractional-order memristive recurrent neural networks via aperiodically intermittent control. 2022 , 19, 11717-11734 | |
| 106 | Study of a Chaotic Circuit with a Physical Memristor as a Nonlinear Resistor. 2022, | 1 |
| 105 | Empirical Modelling of ReRAM Measured Characteristics Using Charge and Flux. 2022, | |
| 104 | A Simple Memristive Circuit for Pattern Classification Based on Reservoir Computing. 2022, 32, | |
| 103 | Various coexisting attractors, asymmetry analysis and multistability control in a 3D memristive jerk system. 2022 , 137, | O |

| 102 | Review on the Basic Circuit Elements and Memristor Interpretation: Analysis, Technology and Applications. 2022 , 12, 44 | О |
|----------------------------|--|-------------|
| 101 | A Novel Memristor-Based SRAM Design with Improved Stability in Sub-Threshold Region. | |
| 100 | Application of discrete memristors in logistic map and HindmarshRose neuron. | 0 |
| 99 | A flux controlled electronically tunable fully floating OTA based memristor emulator. | |
| 98 | Synchronization behavior in a memristive synapse-connected neuronal network. 2022, 137, | |
| 97 | Unraveling the Effect of the Water Content in the Electrolyte on the Resistive Switching Properties of Self-Assembled One-Dimensional Anodized TiO2 Nanotubes. 2022 , 13, 7870-7880 | 3 |
| 96 | A Deep Study of Resistance Switching Phenomena in TaO x ReRAM Cells: System-Theoretic Dynamic Route Map Analysis and Experimental Verification. 2022 , 8, 2200182 | 2 |
| 95 | A New Memristive System with Chaotic and Periodic Bursting and Its FPGA Implementation. | O |
| 94 | BPSK Circuit Based on SDC Memristor. 2022 , 13, 1306 | 1 |
| | | |
| 93 | Dynamic analysis of a slow-fast oscillator based on a coupled Duffing memristive system. | |
| 93 | A synaptic memristor based on natural organic honey with neural facilitation. 2022 , 109, 106622 | 0 |
| | | 0 |
| 92 | A synaptic memristor based on natural organic honey with neural facilitation. 2022 , 109, 106622 Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order | |
| 92 91 | A synaptic memristor based on natural organic honey with neural facilitation. 2022, 109, 106622 Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order Memristor. 2022, 13, 1512 A new 4D Memristor chaotic system: Analysis and implementation. 2023, 88, 91-100 Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. 2023, 29, 1-10 | 0 |
| 92 91 90 | A synaptic memristor based on natural organic honey with neural facilitation. 2022, 109, 106622 Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order Memristor. 2022, 13, 1512 A new 4D Memristor chaotic system: Analysis and implementation. 2023, 88, 91-100 Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. 2023, 29, 1-10 GEM: A GEneralized Memristor Device Modeling Framework Based on Neural Network for Transient Circuit Simulation. 2022, 1-1 | 0 |
| 92 91 90 89 | A synaptic memristor based on natural organic honey with neural facilitation. 2022, 109, 106622 Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order Memristor. 2022, 13, 1512 A new 4D Memristor chaotic system: Analysis and implementation. 2023, 88, 91-100 Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. 2023, 29, 1-10 GEM: A GEneralized Memristor Device Modeling Framework Based on Neural Network for | 0 0 |
| 92 91 90 89 88 | A synaptic memristor based on natural organic honey with neural facilitation. 2022, 109, 106622 Principle and Application of Frequency-Domain Characteristic Analysis of Fractional-Order Memristor. 2022, 13, 1512 A new 4D Memristor chaotic system: Analysis and implementation. 2023, 88, 91-100 Dynamics of a Photochromic-Actuated Slot Microring Photonic Memristor. 2023, 29, 1-10 GEM: A GEneralized Memristor Device Modeling Framework Based on Neural Network for Transient Circuit Simulation. 2022, 1-1 Electronically Tunable Flux-Controlled Resistorless Memristor Emulator Emulateur de memristor | o o o |

| 84 | Chaotic Dynamics of Third Order Wien Bridge Oscillator with Memristor Under External Generalized Sinusoidal Stimulus. 2022 , 1027-1041 | О |
|----|--|---|
| 83 | A Passive Grounded MOSCAP- Memrisor Emulator. 2022 , | O |
| 82 | Harnessing the Metallhsulator Transition of VO 2 in Neuromorphic Computing. 2205294 | 2 |
| 81 | Quantum Memristors with Quantum Computers. 2022 , 18, | O |
| 80 | Parameter extraction techniques for the analysis and modeling of resistive memories. 2022, 265, 111876 | 2 |
| 79 | Electro-thermal Characterization of Dynamical VO 2 Memristors via Local Activity Modeling. 2205451 | O |
| 78 | A novel hyperchaotic map with Sine chaotification and discrete memristor. | 1 |
| 77 | Haf∃zal∃ Kondansat∄Tabanl∃ Aläk Geiren Filtrenin Analizi. | 0 |
| 76 | Generalized model for steady-state bifurcations without parameters in memristor-based oscillators with lines of equilibria. | 0 |
| 75 | Grounded Meminductor Emulator Using Operational Amplifier-Based Generalized Impedance Converter and Its Application in High Pass Filter. 2022 , 10, 496-500 | 1 |
| 74 | Review on data-centric brain-inspired computing paradigms exploiting emerging memory devices. 2, | 0 |
| 73 | Memristor and Its Modelling: A Review. 2023 , 219-233 | O |
| 72 | A Compact Floating and Grounded Memristor model using Single Active Element. 2022, 154426 | 3 |
| 71 | Organic Memory Devices. 2022, 261-281 | O |
| 70 | Dynamical Analysis of a Three-Dimensional Non-autonomous Chaotic Circuit Based on a Physical Memristor. 2022 , 151-173 | 0 |
| 69 | Intelligent Control of Seizure-Like Activity in a Memristive Neuromorphic Circuit Based on the HodgkinHuxley Model. 2022 , 12, 54 | O |
| 68 | Optimization of Power-Aware Non-Linearity in Voltage-Controlled Resistive Switching Devices for Non-Volatile Memory Applications. 1-12 | 0 |
| 67 | A Cubic Memristive System with Two Twin R\Bsler-Type Chaotic Attractors Symmetrical About an Invariant Plane. 2022 , 32, | 1 |

| 66 | Energy and Space Efficient Parallel Adder Using Molecular Memristors. 2206128 | О |
|----|--|----------|
| 65 | Extended and Generic Higher-Order Elements for MEMS Modeling. 2022 , 22, 8007 | O |
| 64 | Convergence of Neural Networks with a Class of Real Memristors with Rectifying Characteristics. 2022 , 10, 4024 | O |
| 63 | MEMRISTOR BASED OBJECT DETECTION USING NEURAL NETWORK. 2022 , 100085 | O |
| 62 | Embedding the dynamics of forced nonlinear systems in multistable memristor circuits. 2022, 1-1 | O |
| 61 | A Predictive Approach for Conditional Execution of Memristive Material Implication Stateful Logic Operations. 2022 , 1-1 | O |
| 60 | Mott Memristors and Neuronal Ion Channels: A Qualitative Analysis. 2022, 1-1 | O |
| 59 | Performance Analysis of Memristive-CNN based on a VCM Device Model. 2022, | O |
| 58 | A Fully Memristive Spiking Neural Network with Unsupervised Learning. 2022, | 1 |
| 57 | Unlocking High Resolution Arithmetic Operations within Memristive Crossbars for Error Tolerant Applications. 2022 , | O |
| 56 | Bioderived materials for stimuli-responsive, adaptive, and neuromorphic systems: A perspective. 0021998 | 3221థ350 |
| 55 | Functional emulator designs for a memristor model with programmable analog and digital platforms. | O |
| 54 | Synthesis of memristive one-ports with piecewise-smooth characteristics. 1-10 | O |
| 53 | Resistive-RAM-Based In-Memory Computing for Neural Network: A Review. 2022 , 11, 3667 | O |
| 52 | Dynamics of electrical resistance of kombucha zoogleal mats. | O |
| 51 | Dynamical Analysis of a Novel Fractional-Order Chaotic System Based on Memcapacitor and Meminductor. 2022 , 6, 671 | 1 |
| 50 | On Memristors for Enabling Energy Efficient and Enhanced Cognitive Network Functions. 2022 , 10, 12927 | 9-129312 |
| 49 | Memristor synapse-coupled piecewise-linear simplified Hopfield neural network: Dynamics analysis and circuit implementation. 2023 , 166, 112899 | 4 |

| 48 | Memristor-Based Logic Circuit Design Applications. 2022, | 0 |
|----|--|---|
| 47 | A discrete memristive neural network and its application for character recognition. 2023 , 523, 1-8 | O |
| 46 | Study of the dynamical behavior of an Ikeda-based map with a discrete memristor. 2023, 89, 168-177 | 1 |
| 45 | High Frequency Response of Non-Volatile Memristors. 2022 , 1-13 | O |
| 44 | Analytical Study of the Fading Memory Phenomenon in a TaOx Memristor Model. 2022, | 0 |
| 43 | Charge Transport inside TiO2 Memristors Prepared via FEBID. 2022 , 12, 4145 | O |
| 42 | Whisky-born memristor. | 0 |
| 41 | A Universal Electronically Controllable Memelement Emulator Based on VDCC with Variable Configuration. 2022 , 11, 3957 | 1 |
| 40 | An enhanced Verilog-A compact model for bipolar RRAMs including transient thermal effects and series resistance. 2022 , | 0 |
| 39 | Spray deposition of the nanostructured ZnO thin films for non-volatile resistive switching memory applications. 2023 , 129, | O |
| 38 | LQR Chaos Synchronization for a Novel Memristor-Based Hyperchaotic Oscillator. 2023, 11, 11 | 0 |
| 37 | Gradient-Based Neuromorphic Learning on Dynamical RRAM Arrays. 2022 , 12, 888-897 | O |
| 36 | Modeling temperature dynamic effects for high-power light-emitting diodes. | 0 |
| 35 | REsler-like Neuronal Firing with Local Amplitude Control. 2022 , 2022, 1-14 | O |
| 34 | Hybrid Perovskite-Based Memristor Devices. | O |
| 33 | Spatial Computing in Modular Spiking Neural Networks with a Robotic Embodiment. 2023 , 11, 234 | O |
| 32 | Global dynamics of diffusive Hindmarsh R ose equations with memristors. 2023 , 71, 103827 | 0 |
| 31 | Unconventional Memristive Nanodevices. 2022 , 16, 34-45 | O |

| 30 | Application of nanoscale devices in circuits. 2023 , 359-384 | О |
|----|--|---|
| 29 | A novel second generation current conveyor (CCII)-based high frequency memristor model. 2023 , 111938 | O |
| 28 | Dynamics of Electrical Resistance of Kombucha Zoogleal Mats. 1-10 | О |
| 27 | Tailor-made synaptic dynamics based on memristive devices. 3, | O |
| 26 | Applications of MXene-based memristors in neuromorphic intelligence applications. 1-19 | O |
| 25 | Reality Versus Fiction. 2023, 13-28 | O |
| 24 | What∃in a Name?. 2023 , 1-11 | 0 |
| 23 | Physical evidence of meminductance in a passive, two-terminal circuit element. 2023, 13, | O |
| 22 | An active memristor based rate-coded spiking neural network. 2023 , 533, 61-71 | О |
| 21 | Exponential synchronization of memristive Hindmarsh R ose neural networks. 2023 , 73, 103909 | O |
| 20 | Implementation of the Simple Hyperchaotic Memristor Circuit with Attractor Evolution and Large-Scale Parameter Permission. 2023 , 25, 203 | 0 |
| 19 | Graphene Oxide-Based Memristive Logic-in-Memory Circuit Enabling Normally-Off Computing. 2023 , 13, 710 | O |
| 18 | Pseudo-transistors for emerging neuromorphic electronics. 2023 , 24, | 0 |
| 17 | A Study of Fractional-Order Memristive Ant Colony Algorithm: Take Fracmemristor into Swarm Intelligent Algorithm. 2023 , 7, 211 | O |
| 16 | Mott memristors based on field-induced carrier avalanche multiplication. 2023 , 107, | 0 |
| 15 | Features of the Formation of Conductive Channels in Memristors Based on Solid Electrolytes. 2022 , 17, S68-S71 | O |
| 14 | Mathematical and Experimental Model of Neuronal Oscillator Based on Memristor-Based Nonlinearity. 2023 , 11, 1268 | 0 |
| 13 | Interface-Assisted Room-Temperature Magnetoresistance in Cu-Phenalenyl-Based Magnetic Tunnel Junctions. 2023 , 5, 1471-1477 | Ο |

| 12 | An Overview of Complex Instability Behaviors Induced by Nonlinearity of Power Electronic Systems with Memristive Load. 2023 , 16, 2528 | O |
|----|--|---|
| 11 | Thermal Characterization of Conductive Filaments in Unipolar Resistive Memories. 2023, 14, 630 | O |
| 10 | Variability in Resistive Memories. 2200338 | O |
| 9 | Locally Active Memristor with Variable Parameters and Its Oscillation Circuit. 2023, 33, | O |
| 8 | Inertness and Other Properties of Thin Ruthenium Electrodes in ReRAM Applications. | 0 |
| 7 | Drift speed adaptive memristor model. | O |
| 6 | Evaluation of CelluloseMXene Composite Hydrogel Based Bio-Resistive Random Access Memory Material as Mimics for Biological Synapses. | O |
| 5 | Tetraphenylethene Carbothioamide-Based Organic Stimuli-Responsive Mechanochromic Memristive Devices with Non-Volatile Memory and Synaptic Learning Functionalities. 2023 , 8, | O |
| 4 | Nanoscale Memristor. 2016 , 562-579 | 0 |
| 3 | Oxide Based Memristors: Fabrication, Mechanism, and Application. 2018 , 581-596 | O |
| 2 | Holistic Variability Analysis in Resistive Switching Memories Using a Two-Dimensional Variability Coefficient. 2023 , 15, 19102-19110 | 0 |
| 1 | Dynamical and coherence resonance in a photoelectric neuron under autaptic regulation. 2023 , 620, 128746 | O |