

Rui Yang

List of Publications by Citations

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

42
papers

1,396
citations

18
h-index

37
g-index

44
ext. papers

1,680
ext. citations

7.3
avg, IF

4.91
L-index

#	Paper	IF	Citations
42	Synaptic Metaplasticity Realized in Oxide Memristive Devices. <i>Advanced Materials</i> , 2016 , 28, 377-84	24	164
41	On-demand nanodevice with electrical and neuromorphic multifunction realized by local ion migration. <i>ACS Nano</i> , 2012 , 6, 9515-21	16.7	153
40	Photonic Potentiation and Electric Habituation in Ultrathin Memristive Synapses Based on Monolayer MoS. <i>Small</i> , 2018 , 14, e1800079	11	141
39	Synaptic Suppression Triplet-STDP Learning Rule Realized in Second-Order Memristors. <i>Advanced Functional Materials</i> , 2018 , 28, 1704455	15.6	132
38	Synaptic plasticity and memory functions achieved in a WO ₃ -x-based nanoionics device by using the principle of atomic switch operation. <i>Nanotechnology</i> , 2013 , 24, 384003	3.4	92
37	Memristive Synapses with Photoelectric Plasticity Realized in ZnO/AlO Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6463-6470	9.5	73
36	Memristive Synapses and Neurons for Bioinspired Computing. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900287	6.4	66
35	Quasi-Hodgkin-Huxley Neurons with Leaky Integrate-and-Fire Functions Physically Realized with Memristive Devices. <i>Advanced Materials</i> , 2019 , 31, e1803849	24	56
34	All-ZnO-based transparent resistance random access memory device fully fabricated at room temperature. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 255104	3	52
33	Oxygen migration process in the interfaces during bipolar resistance switching behavior of WO ₃ -based nanoionics devices. <i>Applied Physics Letters</i> , 2012 , 100, 231603	3.4	43
32	Coexistence of analog and digital resistive switching in BiFeO ₃ -based memristive devices. <i>Solid State Ionics</i> , 2016 , 296, 114-119	3.3	41
31	Pavlovian conditioning demonstrated with neuromorphic memristive devices. <i>Scientific Reports</i> , 2017 , 7, 713	4.9	38
30	Bienenstock, Cooper, and Munro Learning Rules Realized in Second-Order Memristors with Tunable Forgetting Rate. <i>Advanced Functional Materials</i> , 2019 , 29, 1807316	15.6	38
29	Mimicking the brain functions of learning, forgetting and explicit/implicit memories with SrTiO ₃ -based memristive devices. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31796-31802	3.6	31
28	Multi-gate memristive synapses realized with the lateral heterostructure of 2D WSe and WO. <i>Nanoscale</i> , 2020 , 12, 380-387	7.7	29
27	Pt/WO ₃ /FTO memristive devices with recoverable pseudo-electroforming for time-delay switches in neuromorphic computing. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 9338-43	3.6	26
26	Temperature Difference Triggering Controlled Growth of All-Inorganic Perovskite Nanowire Arrays in Air. <i>Small</i> , 2018 , 14, e1803010	11	21

25	Optically modulated electric synapses realized with memristors based on ZnO nanorods. <i>Applied Physics Letters</i> , 2018 , 113, 061107	3.4	20
24	Structural characteristics and resistive switching properties of thermally prepared TiO ₂ thin films. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 458-461	5.7	18
23	Nanoionic devices enabling a multitude of new features. <i>Nanoscale</i> , 2016 , 8, 13873-9	7.7	17
22	Improvement of resistance switching properties for metal/La _{0.7} Ca _{0.3} MnO ₃ /Pt devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1041-1046	1.6	15
21	Analog and digital Reset processes observed in Pt/CuO/Pt memristive devices. <i>Solid State Ionics</i> , 2017 , 303, 161-166	3.3	14
20	Behavioral Plasticity Emulated with Lithium Lanthanum Titanate-Based Memristive Devices: Habituation. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700046	6.4	13
19	Nanoionic devices: Interface nanoarchitectonics for physical property tuning and enhancement. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 1102A4	1.4	12
18	Polarity Reversal in the Bipolar Switching of Anodic TiO ₂ Film. <i>Journal of the Electrochemical Society</i> , 2015 , 162, E271-E275	3.9	11
17	Forming-free artificial synapses with Ag point contacts at interface. <i>Journal of Materiomics</i> , 2019 , 5, 296-302	6.9	11
16	Single crystalline SrTiO ₃ as memristive model system: From materials science to neurological and psychological functions. <i>Journal of Electroceramics</i> , 2017 , 39, 210-222	1.5	10
15	Implementation of Dropout Neuronal Units Based on Stochastic Memristive Devices in Neural Networks with High Classification Accuracy. <i>Advanced Science</i> , 2020 , 7, 2001842	13.6	10
14	Electric field control of resistive switching and magnetization in epitaxial LaBaCoO thin films. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8843-8848	3.6	9
13	Electroforming-Free Artificial Synapses Based on Proton Conduction in HMoO ₃ Films. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901290	6.4	8
12	Review of resistive switching mechanisms for memristive neuromorphic devices. <i>Chinese Physics B</i> , 2020 , 29, 097305	1.2	8
11	Flexible full two-dimensional memristive synapses of graphene/WSeO/graphene. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20658-20664	3.6	7
10	Revival of "dead" memristive devices: case of WO _{3-x} . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13923-6	3.6	5
9	Electrohydrodynamically Printed Flexible Organic Memristor for Leaky Integrate and Fire Neuron. <i>IEEE Electron Device Letters</i> , 2022 , 43, 116-119	4.4	4
8	Ordering of oxygen vacancies in LaBaCo ₂ O _{6-δ} epitaxial films. <i>Scripta Materialia</i> , 2020 , 181, 1-5	5.6	2

7	Artificial Synapses Realized by Atomic Switch Technology. <i>Advances in Atom and Single Molecule Machines</i> , 2020 , 175-199	0	1
6	Environment-friendly regenerated cellulose based flexible memristive device. <i>Applied Physics Letters</i> , 2021 , 119, 201904	3.4	1
5	Structure and magnetic properties of highly oriented LaBaCoO films deposited on Si wafers with Pt/Ti buffer layer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22390-22395	3.6	1
4	Single-Crystalline SrTiO ₃ as Memristive Model System: From Materials Science to Neurological and Psychological Functions. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2022 , 333-354		
3	Artificial Neurons: Quasi-Hodgkin-Huxley Neurons with Leaky Integrate-and-Fire Functions Physically Realized with Memristive Devices (Adv. Mater. 3/2019). <i>Advanced Materials</i> , 2019 , 31, 1970020 ²⁴		
2	Two-Terminal Neuromorphic Memristors 2022 , 1-46		
1	Bidirectional selector realized through multilayer tunnel barrier engineering. <i>IEEE Journal of the Electron Devices Society</i> , 2022 , 1-1	2.3	