

Can Li

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.

49
papers

3,995
citations

24
h-index

62
g-index

62
ext. papers

5,189
ext. citations

15.2
avg, IF

5.31
L-index

#	Paper	IF	Citations
49	Analogue signal and image processing with large memristor crossbars. <i>Nature Electronics</i> , 2018 , 1, 52-59	28.4	550
48	Fully memristive neural networks for pattern classification with unsupervised learning. <i>Nature Electronics</i> , 2018 , 1, 137-145	28.4	511
47	Efficient and self-adaptive in-situ learning in multilayer memristor neural networks. <i>Nature Communications</i> , 2018 , 9, 2385	17.4	371
46	Memristor-Based Analog Computation and Neural Network Classification with a Dot Product Engine. <i>Advanced Materials</i> , 2018 , 30, 1705914	24	339
45	Anatomy of Ag/Hafnia-Based Selectors with 10 Nonlinearity. <i>Advanced Materials</i> , 2017 , 29, 1604457	24	245
44	Memristor crossbar arrays with 6-nm half-pitch and 2-nm critical dimension. <i>Nature Nanotechnology</i> , 2019 , 14, 35-39	28.7	231
43	A novel true random number generator based on a stochastic diffusive memristor. <i>Nature Communications</i> , 2017 , 8, 882	17.4	180
42	Long short-term memory networks in memristor crossbar arrays. <i>Nature Machine Intelligence</i> , 2019 , 1, 49-57	22.5	176
41	Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1704862	15.6	168
40	Reinforcement learning with analogue memristor arrays. <i>Nature Electronics</i> , 2019 , 2, 115-124	28.4	166
39	Capacitive neural network with neuro-transistors. <i>Nature Communications</i> , 2018 , 9, 3208	17.4	132
38	Three-dimensional crossbar arrays of self-rectifying Si/SiO/Si memristors. <i>Nature Communications</i> , 2017 , 8, 15666	17.4	115
37	Three-dimensional memristor circuits as complex neural networks. <i>Nature Electronics</i> , 2020 , 3, 225-232	28.4	112
36	Silicon Oxide (SiO ₂): A Promising Material for Resistance Switching?. <i>Advanced Materials</i> , 2018 , 30, e1801147	17.4	105
35	In situ training of feed-forward and recurrent convolutional memristor networks. <i>Nature Machine Intelligence</i> , 2019 , 1, 434-442	22.5	93
34	Power-efficient combinatorial optimization using intrinsic noise in memristor Hopfield neural networks. <i>Nature Electronics</i> , 2020 , 3, 409-418	28.4	79
33	Artificial Neural Network (ANN) to Spiking Neural Network (SNN) Converters Based on Diffusive Memristors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900060	6.4	55

32	Low-Conductance and Multilevel CMOS-Integrated Nanoscale Oxide Memristors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800876	6.4	46
31	Roadmap on emerging hardware and technology for machine learning. <i>Nanotechnology</i> , 2021 , 32, 0120034	3.4	45
30	A provable key destruction scheme based on memristive crossbar arrays. <i>Nature Electronics</i> , 2018 , 1, 548-554	28.4	32
29	Programmable Bidirectional Folding of Metallic Thin Films for 3D Chiral Optical Antennas. <i>Advanced Materials</i> , 2017 , 29, 1606482	24	29
28	Analog content-addressable memories with memristors. <i>Nature Communications</i> , 2020 , 11, 1638	17.4	28
27	Low voltage resistive switching devices based on chemically produced silicon oxide. <i>Applied Physics Letters</i> , 2013 , 103, 062104	3.4	28
26	In-Memory Computing with Memristor Content Addressable Memories for Pattern Matching. <i>Advanced Materials</i> , 2020 , 32, e2003437	24	27
25	Focused-ion-beam induced rayleigh-plateau instability for diversiform suspended nanostructure fabrication. <i>Scientific Reports</i> , 2015 , 5, 8236	4.9	19
24	Memristor TCAMs Accelerate Regular Expression Matching for Network Intrusion Detection. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 963-970	2.6	17
23	In-Memory Computing with Memristor Arrays 2018 ,		12
22	Artificial neural networks based on memristive devices. <i>Science China Information Sciences</i> , 2018 , 61, 1	3.4	9
21	Timing Selector: Using Transient Switching Dynamics to Solve the Sneak Path Issue of Crossbar Arrays. <i>Small Science</i> , 2100072		8
20	Tree-based machine learning performed in-memory with memristive analog CAM. <i>Nature Communications</i> , 2021 , 12, 5806	17.4	8
19	Redundancy and Analog Slicing for Precise In-Memory Machine Learning Part I: Programming Techniques. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4373-4378	2.9	8
18	CMOS-integrated nanoscale memristive crossbars for CNN and optimization acceleration 2020 ,		7
17	Threshold Switching: Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications (Adv. Funct. Mater. 6/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870036	15.6	7
16	Three-Dimensional Crossbar Arrays of Self-rectifying Si/SiO ₂ /Si Memristors 2019 , 791-813		7
15	Large Memristor Crossbars for Analog Computing 2018 ,		6

14	Mixed Precision Quantization for ReRAM-based DNN Inference Accelerators 2021 ,		5
13	Learning with Resistive Switching Neural Networks 2019 ,		4
12	Redundancy and Analog Slicing for Precise In-Memory Machine Learning Part II: Applications and Benchmark. <i>IEEE Transactions on Electron Devices</i>, 2021, 68, 4379-4383	2.9	4
11	Scalable 3D Ta:SiO _x Memristive Devices. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800958	6.4	2
10	Unconventional computing with diffusive memristors 2018 ,		2
9	Device engineering and CMOS integration of nanoscale memristors 2014 ,		2
8	Analog error correcting codes for defect tolerant matrix multiplication in crossbars 2020 ,		2
7	Ultrasensitive mass sensor using the out-of-phase vibration eigenstate of intercoupled dual-microcantilevers 2011 ,		1
6	2019 ,		1
5	In-Memory Computing with Non-volatile Memristor CAM Circuits 2022 , 105-139		1
4	Experimentally-Validated Crossbar Model for Defect-Aware Training of Neural Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	0
3	Extending the Scaling Limit of Silicon Channel Transistors Through h ₁ k-Silicene Monolayer: A Computational Study. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-5	2.9	0
2	Differentiable Content Addressable Memory with Memristors. <i>Advanced Electronic Materials</i> , 2101198	6.4	
1	Ta/HfO ₂ -based Memristor and Crossbar Arrays for In-Memory Computing 2022 , 167-188		