## Can Li

## List of Publications by Year in Descending Order

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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.

62 49 3,995 24 h-index g-index citations papers 62 5,189 5.31 15.2 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
49	Experimentally-Validated Crossbar Model for Defect-Aware Training of Neural Networks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2022</b> , 1-1	3.5	O
48	Extending the Scaling Limit of Silicon Channel Transistors Through hhk-Silicene Monolayer: A Computational Study. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-5	2.9	0
47	Ta/HfO2-based Memristor and Crossbar Arrays for In-Memory Computing <b>2022</b> , 167-188		
46	In-Memory Computing with Non-volatile Memristor CAM Circuits 2022, 105-139		1
45	Tree-based machine learning performed in-memory with memristive analog CAM. <i>Nature Communications</i> , <b>2021</b> , 12, 5806	17.4	8
44	Roadmap on emerging hardware and technology for machine learning. <i>Nanotechnology</i> , <b>2021</b> , 32, 0120	03.4	45
43	Mixed Precision Quantization for ReRAM-based DNN Inference Accelerators 2021,		5
42	Redundancy and Analog Slicing for Precise In-Memory Machine Learning <b>P</b> art II: Applications and Benchmark. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4379-4383	2.9	4
41	Redundancy and Analog Slicing for Precise In-Memory Machine Learning <b>P</b> art I: Programming Techniques. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 4373-4378	2.9	8
40	CMOS-integrated nanoscale memristive crossbars for CNN and optimization acceleration 2020,		7
39	Power-efficient combinatorial optimization using intrinsic noise in memristor Hopfield neural networks. <i>Nature Electronics</i> , <b>2020</b> , 3, 409-418	28.4	79
38	Three-dimensional memristor circuits as complex neural networks. <i>Nature Electronics</i> , <b>2020</b> , 3, 225-232	28.4	112
37	Analog content-addressable memories with memristors. <i>Nature Communications</i> , <b>2020</b> , 11, 1638	17.4	28
36	Analog error correcting codes for defect tolerant matrix multiplication in crossbars 2020,		2
35	In-Memory Computing with Memristor Content Addressable Memories for Pattern Matching. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003437	24	27
34	Memristor TCAMs Accelerate Regular Expression Matching for Network Intrusion Detection. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 18, 963-970	2.6	17
33	In situ training of feed-forward and recurrent convolutional memristor networks. <i>Nature Machine Intelligence</i> , <b>2019</b> , 1, 434-442	22.5	93

## (2018-2019)

32	Low-Conductance and Multilevel CMOS-Integrated Nanoscale Oxide Memristors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800876	6.4	46
31	Artificial Neural Network (ANN) to Spiking Neural Network (SNN) Converters Based on Diffusive Memristors. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900060	6.4	55
30	Reinforcement learning with analogue memristor arrays. <i>Nature Electronics</i> , <b>2019</b> , 2, 115-124	28.4	166
29	Scalable 3D Ta:SiOx Memristive Devices. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800958	6.4	2
28	Three-Dimensional Crossbar Arrays of Self-rectifying Si/SiO2/Si Memristors <b>2019</b> , 791-813		7
27	Learning with Resistive Switching Neural Networks <b>2019</b> ,		4
26	2019,		1
25	Memristor crossbar arrays with 6-nm half-pitch and 2-nm critical dimension. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 35-39	28.7	231
24	Long short-term memory networks in memristor crossbar arrays. <i>Nature Machine Intelligence</i> , <b>2019</b> , 1, 49-57	22.5	176
23	Threshold Switching: Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications (Adv. Funct. Mater. 6/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870036	15.6	7
22	Fully memristive neural networks for pattern classification with unsupervised learning. <i>Nature Electronics</i> , <b>2018</b> , 1, 137-145	28.4	511
21	Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704862	15.6	168
20	Memristor-Based Analog Computation and Neural Network Classification with a Dot Product Engine. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705914	24	339
19	Unconventional computing with diffusive memristors 2018,		2
18	Large Memristor Crossbars for Analog Computing 2018,		6
17	Capacitive neural network with neuro-transistors. <i>Nature Communications</i> , <b>2018</b> , 9, 3208	17.4	132
16	Efficient and self-adaptive in-situ learning in multilayer memristor neural networks. <i>Nature Communications</i> , <b>2018</b> , 9, 2385	17.4	371
15	Analogue signal and image processing with large memristor crossbars. <i>Nature Electronics</i> , <b>2018</b> , 1, 52-5	928.4	550

14	A provable key destruction scheme based on memristive crossbar arrays. <i>Nature Electronics</i> , <b>2018</b> , 1, 548-554	28.4	32
13	Artificial neural networks based on memristive devices. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	9
12	Silicon Oxide (SiO ): A Promising Material for Resistance Switching?. Advanced Materials, 2018, 30, e180	11487	105
11	In-Memory Computing with Memristor Arrays 2018,		12
10	Anatomy of Ag/Hafnia-Based Selectors with 10 Nonlinearity. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604457	24	245
9	Programmable Bidirectional Folding of Metallic Thin Films for 3D Chiral Optical Antennas. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606482	24	29
8	Three-dimensional crossbar arrays of self-rectifying Si/SiO/Si memristors. <i>Nature Communications</i> , <b>2017</b> , 8, 15666	17.4	115
7	A novel true random number generator based on a stochastic diffusive memristor. <i>Nature Communications</i> , <b>2017</b> , 8, 882	17.4	180
6	Focused-ion-beam induced rayleigh-plateau instability for diversiform suspended nanostructure fabrication. <i>Scientific Reports</i> , <b>2015</b> , 5, 8236	4.9	19
5	Device engineering and CMOS integration of nanoscale memristors 2014,		2
4	Low voltage resistive switching devices based on chemically produced silicon oxide. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 062104	3.4	28
3	Ultrasensitive mass sensor using the out-of-phase vibration eigenstate of intercoupled dual-microcantilevers <b>2011</b> ,		1
2	Timing Selector: Using Transient Switching Dynamics to Solve the Sneak Path Issue of Crossbar Arrays. <i>Small Science</i> ,2100072		8
1	Differentiable Content Addressable Memory with Memristors. <i>Advanced Electronic Materials</i> , 2101198	6.4	