

# Wenhao Song

## 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.

25  
papers

2,754  
citations

15  
h-index

25  
g-index

25  
ext. papers

3,641  
ext. citations

15.5  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
25	Integration and Co-design of Memristive Devices and Algorithms for Artificial Intelligence. <i>IScience</i> , <b>2020</b> , 23, 101809	6.1	20
24	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , <b>2020</b> , 6, eaba6173	14.3	66
23	Brain-inspired computing with memristors: Challenges in devices, circuits, and systems. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 011308	17.3	105
22	Three-dimensional memristor circuits as complex neural networks. <i>Nature Electronics</i> , <b>2020</b> , 3, 225-232	28.4	112
21	An artificial spiking afferent nerve based on Mott memristors for neurorobotics. <i>Nature Communications</i> , <b>2020</b> , 11, 51	17.4	105
20	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
19	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
18	Reinforcement learning with analogue memristor arrays. <i>Nature Electronics</i> , <b>2019</b> , 2, 115-124	28.4	166
17	Reservoir Computing Using Diffusive Memristors. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900084	6	65
16	Learning with Resistive Switching Neural Networks <b>2019</b> ,		4
15	Experimental Demonstration of Conversion-Based SNNs with 1T1R Mott Neurons for Neuromorphic Inference <b>2019</b> ,		10
14	Long short-term memory networks in memristor crossbar arrays. <i>Nature Machine Intelligence</i> , <b>2019</b> , 1, 49-57	22.5	176
13	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
12	Fully memristive neural networks for pattern classification with unsupervised learning. <i>Nature Electronics</i> , <b>2018</b> , 1, 137-145	28.4	511
11	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
10	A compact model for selectors based on metal doped electrolyte. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	2
9	Unconventional computing with diffusive memristors <b>2018</b> ,		2

8	Large Memristor Crossbars for Analog Computing <b>2018</b> ,		6
7	Capacitive neural network with neuro-transistors. <i>Nature Communications</i> , <b>2018</b> , 9, 3208	17.4	132
6	Efficient and self-adaptive in-situ learning in multilayer memristor neural networks. <i>Nature Communications</i> , <b>2018</b> , 9, 2385	17.4	371
5	Analogue signal and image processing with large memristor crossbars. <i>Nature Electronics</i> , <b>2018</b> , 1, 52-59	28.4	550
4	Memristor-CMOS Analog Coprocessor for Acceleration of High-Performance Computing Applications. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2018</b> , 14, 1-30	1.7	2
3	An energy-efficient and high-throughput bitwise CNN on sneak-path-free digital ReRAM crossbar <b>2017</b> ,		12
2	Timing Selector: Using Transient Switching Dynamics to Solve the Sneak Path Issue of Crossbar Arrays. <i>Small Science</i> , 2100072		8
1	A Dynamical Compact Model of Diffusive and Drift Memristors for Neuromorphic Computing. <i>Advanced Electronic Materials</i> , 2100696	6.4	6