

Wenhao Song

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2328245/wenhao-song-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. 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.

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	Analogue signal and image processing with large memristor crossbars. <i>Nature Electronics</i> , 2018 , 1, 52-59	28.4	550
24	Fully memristive neural networks for pattern classification with unsupervised learning. <i>Nature Electronics</i> , 2018 , 1, 137-145	28.4	511
23	Efficient and self-adaptive in-situ learning in multilayer memristor neural networks. <i>Nature Communications</i> , 2018 , 9, 2385	17.4	371
22	Long short-term memory networks in memristor crossbar arrays. <i>Nature Machine Intelligence</i> , 2019 , 1, 49-57	22.5	176
21	Threshold Switching of Ag or Cu in Dielectrics: Materials, Mechanism, and Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1704862	15.6	168
20	Reinforcement learning with analogue memristor arrays. <i>Nature Electronics</i> , 2019 , 2, 115-124	28.4	166
19	Capacitive neural network with neuro-transistors. <i>Nature Communications</i> , 2018 , 9, 3208	17.4	132
18	Three-dimensional memristor circuits as complex neural networks. <i>Nature Electronics</i> , 2020 , 3, 225-232	28.4	112
17	Brain-inspired computing with memristors: Challenges in devices, circuits, and systems. <i>Applied Physics Reviews</i> , 2020 , 7, 011308	17.3	105
16	An artificial spiking afferent nerve based on Mott memristors for neurorobotics. <i>Nature Communications</i> , 2020 , 11, 51	17.4	105
15	In situ training of feed-forward and recurrent convolutional memristor networks. <i>Nature Machine Intelligence</i> , 2019 , 1, 434-442	22.5	93
14	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. <i>Science Advances</i> , 2020 , 6, eaba6173	14.3	66
13	Reservoir Computing Using Diffusive Memristors. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900084	6	65
12	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
11	Integration and Co-design of Memristive Devices and Algorithms for Artificial Intelligence. <i>IScience</i> , 2020 , 23, 101809	6.1	20
10	An energy-efficient and high-throughput bitwise CNN on sneak-path-free digital ReRAM crossbar 2017 ,		12
9	Experimental Demonstration of Conversion-Based SNNs with 1T1R Mott Neurons for Neuromorphic Inference 2019 ,		10

8	Timing Selector: Using Transient Switching Dynamics to Solve the Sneak Path Issue of Crossbar Arrays. <i>Small Science</i> ,2100072		8
7	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
6	Large Memristor Crossbars for Analog Computing 2018 ,		6
5	A Dynamical Compact Model of Diffusive and Drift Memristors for Neuromorphic Computing. <i>Advanced Electronic Materials</i> ,2100696	6.4	6
4	Learning with Resistive Switching Neural Networks 2019 ,		4
3	A compact model for selectors based on metal doped electrolyte. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	2
2	Unconventional computing with diffusive memristors 2018 ,		2
1	Memristor-CMOS Analog Coprocessor for Acceleration of High-Performance Computing Applications. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2018 , 14, 1-30	1.7	2