

Vivek Saraswat

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

69
citations

1684188

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1872680

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docs citations

10
times ranked

55
citing authors

#	ARTICLE	IF	CITATIONS
1	Pr _x Ca _{1-x} MnO ₃ based stochastic neuron for Boltzmann machine to solve "maximum cut" problem. APL Materials, 2019, 7, .	5.1	16
2	Transient Joule Heating-Based Oscillator Neuron for Neuromorphic Computing. IEEE Electron Device Letters, 2018, 39, 1437-1440.	3.9	15
3	Understanding the Region of Resistance Change in Pr _{0.7} Ca _{0.3} MnO ₃ RRAM. ACS Applied Electronic Materials, 2020, 2, 2026-2031.	4.3	13
4	Reaction-Drift Model for Switching Transients in Pr _{1-x} Ca _x MnO ₃ -Based Resistive RAM. IEEE Transactions on Electron Devices, 2020, 67, 3610-3617.	3.0	11
5	Quantum Tunneling Based Ultra-Compact and Energy Efficient Spiking Neuron Enables Hardware SNN. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3212-3224.	5.4	9
6	Stochasticity invariance control in Pr _{1-x} Ca _x MnO ₃ RRAM to enable large-scale stochastic recurrent neural networks. Neuromorphic Computing and Engineering, 2022, 2, 014001.	5.9	3
7	Thermal Engineering of Volatile Switching in PrMnO ₃ RRAM: Non-Linearity in DC IV Characteristics and Transient Switching Speed. , 2020, , .		1
8	n-Oscillator Neural Network based Efficient Cost Function for n-city Traveling Salesman Problem. , 2020, , .		1
9	A Compact PrMnO ₃ Based Oscillator as an Alternative to CMOS Ring Oscillator in a Smart Temperature Sensor. , 2018, , .		0
10	Experimentally Validated Pr _{0.7} Ca _{0.3} MnO ₃ RRAM Verilog-A model based Izhikevich Neuronal Dynamics. , 2021, , .		0