

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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g-index

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all docs

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Stochastic invariance control in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ RRAM to enable large-scale stochastic recurrent neural networks. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 014001.	5.9	3
2	Quantum Tunneling Based Ultra-Compact and Energy Efficient Spiking Neuron Enables Hardware SNN. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022, 69, 3212-3224.	5.4	9
3	Experimentally Validated $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ RRAM Verilog-A model based Izhikevich Neuronal Dynamics. , 2021, , .		0
4	Thermal Engineering of Volatile Switching in PrMnO_3 RRAM: Non-Linearity in DC IV Characteristics and Transient Switching Speed. , 2020, , .		1
5	Reaction-Drift Model for Switching Transients in $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ -Based Resistive RAM. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 3610-3617.	3.0	11
6	n-Oscillator Neural Network based Efficient Cost Function for n-city Traveling Salesman Problem. , 2020, , .		1
7	Understanding the Region of Resistance Change in $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ RRAM. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2026-2031.	4.3	13
8	$\text{Pr}_x\text{Ca}_{1-x}\text{MnO}_3$ based stochastic neuron for Boltzmann machine to solve "maximum cut" problem. <i>APL Materials</i> , 2019, 7, .	5.1	16
9	A Compact PrMnO_3 Based Oscillator as an Alternative to CMOS Ring Oscillator in a Smart Temperature Sensor. , 2018, , .		0
10	Transient Joule Heating-Based Oscillator Neuron for Neuromorphic Computing. <i>IEEE Electron Device Letters</i> , 2018, 39, 1437-1440.	3.9	15