

Abhinav Parihar

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

689
citations

933447

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1199594

12
g-index

24
all docs

24
docs citations

24
times ranked

742
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronized charge oscillations in correlated electron systems. Scientific Reports, 2014, 4, .	3.3	155
2	Vertex coloring of graphs via phase dynamics of coupled oscillatory networks. Scientific Reports, 2017, 7, 911.	3.3	93
3	Pairwise coupled hybrid vanadium dioxide-MOSFET (HVFET) oscillators for non-boolean associative computing. , 2014, , .		59
4	Computing With Networks of Oscillatory Dynamical Systems. Proceedings of the IEEE, 2019, 107, 73-89.	21.8	57
5	Programmable coupled oscillators for synchronized locomotion. Nature Communications, 2019, 10, 3299.	12.8	52
6	Synchronization of pairwise-coupled, identical, relaxation oscillators based on metal-insulator phase transition devices: A model study. Journal of Applied Physics, 2015, 117, .	2.5	51
7	Stochastic Insulator-to-Metal Phase Transition-Based True Random Number Generator. IEEE Electron Device Letters, 2018, 39, 139-142.	3.9	35
8	Stochastic IMT (Insulator-Metal-Transition) Neurons: An Interplay of Thermal and Threshold Noise at Bifurcation. Frontiers in Neuroscience, 2018, 12, 210.	2.8	30
9	Neuro Inspired Computing with Coupled Relaxation Oscillators. , 2014, , .		29
10	Direct Feedback Alignment With Sparse Connections for Local Learning. Frontiers in Neuroscience, 2019, 13, 525.	2.8	28
11	Exploiting Synchronization Properties of Correlated Electron Devices in a Non-Boolean Computing Fabric for Template Matching. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 450-459.	3.6	27
12	A Model Study of Defects and Faults in Embedded Spin Transfer Torque (STT) MRAM Arrays. , 2015, , .		23
13	Computing with dynamical systems based on insulator-metal-transition oscillators. Nanophotonics, 2017, 6, 601-611.	6.0	18
14	Ultra-low power probabilistic IMT neurons for stochastic sampling machines. , 2017, , .		10
15	A random number generator based on insulator-to-metal electronic phase transitions. , 2017, , .		7
16	Computing with dynamical systems in the post-CMOS era. , 2016, , .		6
17	Stochastic Resonance in Insulator-Metal-Transition Systems. Scientific Reports, 2020, 10, 5549.	3.3	5
18	Computational paradigms using oscillatory networks based on state-transition devices. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Connecting spectral techniques for graph coloring and eigen properties of coupled dynamics: A pathway for solving combinatorial optimizations (Invited paper). , 2017, , .		1
20	Computing with coupled dynamical systems. , 2016, , .		0
21	Ultra-low power probabilistic IMT neurons for stochastic sampling machines. , 2017, , .		0
22	Dynamics of Coupled Systems and their Computing Properties Invited Paper : Invited Paper. , 2018, , .		0