

Pinaki Mazumder

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.

52
papers

3,471
citations

16
h-index

58
g-index

80
ext. papers

4,103
ext. citations

4
avg. IF

5.3
L-index

#	Paper	IF	Citations
52	Broadband Nonuniform Terahertz Multimode Conversion Series with Compactness and Pure Pattern. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2022 , 43, 150	2.2	
51	Dynamic Pinning Synchronization of Fuzzy-dependent-switched Coupled Memristive Neural Networks with Mismatched Dimensions on Time Scales. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	1
50	. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 483-495	14.2	16
49	A fractional phase-coding strategy for terahertz beam patterning on digital metasurfaces. <i>Optics Express</i> , 2020 , 28, 6395-6407	3.3	7
48	Evolution map of the memristor: from pure capacitive state to resistive switching state. <i>Nanoscale</i> , 2019 , 11, 17222-17229	7.7	32
47	Terahertz Dual-Polarization Beam Splitter Via an Anisotropic Matrix Metasurface. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 491-497	3.4	17
46	Fundamentals and Learning of Artificial Neural Networks 2019 , 11-60		0
45	Hardware Implementations of Spiking Neural Networks 2019 , 173-246		
44	Artificial Neural Networks in Hardware 2019 , 61-118		
43	Operational Principles and Learning in Spiking Neural Networks 2019 , 119-171		
42	Dual-band refractometric terahertz biosensing with intense wave-matter-overlap microfluidic channel. <i>Biomedical Optics Express</i> , 2019 , 10, 3789-3799	3.5	19
41	Spoof Plasmon Interconnects Communications Beyond RC Limit. <i>IEEE Transactions on Communications</i> , 2019 , 67, 599-610	6.9	13
40	A Low-Power Hardware Architecture for On-Line Supervised Learning in Multi-Layer Spiking Neural Networks 2018 ,		7
39	Learning in Memristor Crossbar-Based Spiking Neural Networks Through Modulation of Weight-Dependent Spike-Timing-Dependent Plasticity. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 520-532	2.6	30
38	Fault Modeling and Parallel Testing for 1T1M Memory Array. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 437-451	2.6	10
37	A Scalable Low-Power Reconfigurable Accelerator for Action-Dependent Heuristic Dynamic Programming. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1897-1908	3.9	3
36	Online Supervised Learning for Hardware-Based Multilayer Spiking Neural Networks Through the Modulation of Weight-Dependent Spike-Timing-Dependent Plasticity. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4287-4302	10.3	26

35	Large phase modulation of THz wave via an enhanced resonant active HEMT metasurface. <i>Nanophotonics</i> , 2018 , 8, 153-170	6.3	30
34	Energy-Efficient Hardware Architecture of Self-Organizing Map for ECG Clustering in 65-nm CMOS. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 1097-1101	3.5	7
33	Hardware-Friendly Actor-Critic Reinforcement Learning Through Modulation of Spike-Timing-Dependent Plasticity. <i>IEEE Transactions on Computers</i> , 2017 , 66, 299-311	2.5	12
32	A Drift-Tolerant Read/Write Scheme for Multilevel Memristor Memory. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1016-1027	2.6	12
31	Ka-band relativistic diffraction generator with a tapered coaxial Bragg reflector. <i>AIP Advances</i> , 2017 , 7, 115020	1.5	1
30	Straintronics-Based True Random Number Generator for High-Speed and Energy-Limited Applications. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-9	2	12
29	Electrodynamics of spoof plasmons in periodically corrugated waveguides. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160616	2.4	13
28	THz analog to digital converter using single sided spoof surface plasmon polariton waveguide 2016 , ,		1
27	Towards developing a compact model for magnetization switching in straintronics magnetic random access memory devices. <i>Journal of Applied Physics</i> , 2016 , 120, 073901	2.5	5
26	Spoof Surface Plasmon Polariton Beam Splitter. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 832-839	3.4	20
25	THz Polarizer Controller Based on Cylindrical Spoof Surface Plasmon Polariton (C-SSPP). <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 556-563	3.4	12
24	Effect of temperature variations and thermal noise on the static and dynamic behavior of straintronics devices. <i>Journal of Applied Physics</i> , 2015 , 118, 173902	2.5	5
23	Terahertz Switch Based on Waveguide-Cavity-Waveguide Comprising Cylindrical Spoof Surface Plasmon Polariton. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 1312-1318	2.9	10
22	A low-power reconfigurable CMOS power amplifier for wireless sensor network applications 2014 ,		1
21	Terahertz Beam Steering With Doped GaAs Phase Modulator and a Design of Spatial-Resolved High-Speed Terahertz Analog-to-Digital Converter. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 2195-2202	2.9	9
20	Straintronics-based magnetic tunneling junction: Dynamic and static behavior analysis and material investigation. <i>Applied Physics Letters</i> , 2014 , 104, 162403	3.4	14
19	Image Processing by a Programmable Grid Comprising Quantum Dots and Memristors. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 879-887	2.6	9
18	Metamaterial sensor platforms for Terahertz DNA sensing 2013 ,		5

17	Bio-Sensing by Mach-Zehnder Interferometer Comprising Doubly-Corrugated Spoofed Surface Plasmon Polariton (DC-SSPP) Waveguide. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012 , 2, 460-466	3.4	19
16	CMOS and Memristor-Based Neural Network Design for Position Detection. <i>Proceedings of the IEEE</i> , 2012 , 100, 2050-2060	14.3	117
15	Programmable quantum-dots memristor based architecture for image processing 2012 ,		5
14	Analysis of Doubly Corrugated Spoof Surface Plasmon Polariton (DC-SSPP) Structure With Sub-Wavelength Transmission at THz Frequencies. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2012 , 2, 345-354	3.4	18
13	Memristor-based RRAM with applications. <i>Science China Information Sciences</i> , 2012 , 55, 1446-1460	3.4	40
12	Comparison of FFT/IFFT Designs Utilizing Different Low Power Techniques 2012 ,		1
11	Threshold Read Method for Multi-bit Memristive Crossbar Memory 2011 ,		4
10	Guest Editors Introduction: Special Section on Chips and Architectures for Emerging Technologies and Applications. <i>IEEE Transactions on Computers</i> , 2011 , 60, 450-451	2.5	
9	Self-Controlled Writing and Erasing in a Memristor Crossbar Memory. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 1454-1463	2.6	53
8	Multi-purpose neuro-architecture with memristors 2011 ,		3
7	Memristor based STDP learning network for position detection 2010 ,		12
6	One-Dimensional Surface Plasmon Photonic Crystal Slab (SPPCS) for a Nanophotodiode. <i>IEEE Nanotechnology Magazine</i> , 2010 , 9, 470-473	2.6	
5	Nanoscale memristor device as synapse in neuromorphic systems. <i>Nano Letters</i> , 2010 , 10, 1297-301	11.5	2772
4	An Equivalent Circuit Modeling of an Equispaced Metallic Nanoparticles (MNPs) Plasmon Wire. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 412-418	2.6	9
3	Tunneling-Based Cellular Nonlinear Network Architectures for Image Processing. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2009 , 17, 487-495	2.6	30
2	Efficient Modeling of Transmission Lines With Electromagnetic Wave Coupling by Using the Finite Difference Quadrature Method. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2007 , 15, 1289-1302	2.6	5
1	Accelerated Chip-Level Thermal Analysis Using Multilayer Green's Function. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2007 , 26, 325-344	2.5	23