

**Madanapalle Institute of Technology and Science  
(UGC Autonomous)  
Department of Electronics & Communication Engineering**

Faculty Journal Publications, Academic Year 2018-2019

S. No.	Name(s) of Author(s)	Title of the Paper	Name of the Journal/Conference/ Book	Vol. No/ Issue No. /Page. No/ Month/ Year	DOI/ISSN	Publisher /Indexing	Impact Factor	Citation
1	Debashish Dash, Chandan Kumar Pandey, Saurabh Chaudhury, Susanta Kumar Tripathy	Structure, Stability and Electronic Properties of Thin TiO <sub>2</sub> Nanowires of Different Novel Shapes: An Ab-Initio Study	International journal of Science and Technology	In Press March 2019	DOI: 10.24200/SCI.2019.50644.1800/ ISSN: 1026-3098	Scientia Iranica/ SCI	1.025	--
2	Sitharthan R, T Parthasarathy, S Sheeba Rani, KC Ramya	An Improved RBFNN Control Strategy based MPPT Controller for Wind Power Generation System	Transactions of the Institute of Measurement and Control	1/1/1-13/ January 2019	DOI:10.1177/0142331218823858/ISSN: 01423312	Sage / SCI	1.579	--
3	R Sitharthan, CK Sundarabalan, KR Devabalaji, T Yuvaraj and A Mohamed Imran	Automated Power Management Strategy for Wind Power Generation System using Pitch Angle Controller	Measurement and Control	1/1/1-14/ 14 March 2019	DOI: 10.1177/0020294019827330/ISSN: 0020-2940	Sage / SCI	0.878	--
4	Gaurav Varshney	A proximity coupled wideband graphene antenna with the generation of higher order TM modes for THz applications	Optical Materials, Elsevier	85 /1/ 456-463/ Nov. 2018	<a href="https://doi.org/10.1016/j.optmat.2018.09.015">DOI:10.1016/j.optmat.2018.09.015</a> ISSN: 0925-3467	Elsevier/ SCI	2.32	1
5	Divya Chaturvedi, Arvind Kumar and S. Raghavan	Compact QMSIW-based antenna with different resonant frequencies depending on loading of metalized vias	International Journal of Microwave and	In Press/ 02 April, 2019	<a href="https://doi.org/10.1017/S1759078719000126">https://doi.org/10.1017/S1759078719000126</a> ISSN:1759-0787	Cambridge University Press/ SCOPUS	0.976	--

**Madanapalle Institute of Technology and Science  
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			Wireless Technologies,					
6	Bappaditya Roy, AyanKarmakar, Ujjal chakrabaorty, Santosh Kumar Chowdhury, Anup Kumar hattacharjee	Planar switched beam network using butler matrix on a single layer substrate for WLAN applications	Turkish Journal of Electrical Engineering & Computer Sciences	In Press/ Jan 2019	1300-0632	Academic Journals, Turkey/SCI	0.697	--
7	Anil Kumar Soni, B. Purnachandra Rao	Lock-in Amplifer Based Eddy Current Instrument for Detection of Sub-surface Defect in Stainless Steel Plates	Sensing and Imaging	19/ 1/1-11/ August 2018	DOI: <a href="https://doi.org/10.1007/s11220-018-0217-8">10.1007/s11220-018-0217-8</a> /ISSN: 1557-2064	Springer/ Scopus	--	--
8	Ankan Bhattacharya, Bappaditya Roy, S.K. Chowdhury and A.K. Bhattacharjee	Compact Printed Hexagonal Ultra-Wideband Monopole Antenna with Band-Notch Characteristics	Indian Journal of Pure & Applied Physics (IJPAP)	In Press	ISSN: 0975-1041	IJPAP/SCI	0.582	--
9	Ankan Bhattacharya, Bappaditya Roy, Rafael F. S. Caldeirinha, and Anup K. Bhattacharjee	Low-profile, extremely wideband, dual band-notched MIMO antenna for UWB applications	International Journal of Microwave and Wireless Technologies	In Press	<a href="https://doi.org/10.1017/S1759078719000266">https://doi.org/10.1017/S1759078719000266</a> /ISSN: 1759-0787	Willy/Scopus	0.745	--
10	Arnab De, Bappaditya Roy and Anup Kumar Bhattacharjee	Dual-notched Monopole Antenna using DGS for WLAN and Wi-MAX applications	Journal of Circuits, Systems, and Computers	28/ 11/ 1-18/January 2019	DOI: 10.1142/S0218126619501895/ISSN: 0218-1266	World Scientific/SCI	0.595	--
11	U. Chakraborty, A. Biswas, S. Maity, B Bappaditya Roy, S. Roy	Dielectric Resonator Array Antenna for Triple Band WLAN Applications with Enhanced Gain	International Journal of RF and Microwave Computer-Aided Engineering.	29/ 2 / 1-9/ 2019	DOI:10.1002/mmce.21529/ISSN:1099-047X	Wiley/SCI	1.306	--
12	S. Hoque, S. Shekhar, D. Sen, and W. Arif	Analysis of Handoff Delay for Proactive Spectrum Handoff Scheme with PRP M/G/1/K Queuing System in Cognitive Radio Networks	IET-Communications	In Press	DOI: <a href="https://doi.org/10.1049/iet-com.2018.5687">https://doi.org/10.1049/iet-com.2018.5687</a> /ISSN:1751-8636,	IET/SCI	1.44	--

**Madanapalle Institute of Technology and Science  
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13	Prashanth Kumar, and Brinda Bhowmick	Comparative Analysis of Hetero Gate DielectricHetero Structure Tunnel FET and Schottky Barrier FET with n+ Pocket Doping for Suppression of Ambipolar Conduction and Improved RF/Linearity	Journal of Nanoelectronics and Optoelectronics	14/1 / 261-271/January, 2019	DOI: <a href="https://doi.org/10.1166/jno.2019.2488">https://doi.org/10.1166/jno.2019.2488</a> / ISSN: 1555-130X	American Scientific Publishers/ SCI	0.58	--
14	R. Bera, D. Mandal, R. Kar, S. P. Ghoshal	Low Side-lobe Beam-pattern Synthesis: Thinning of a Large Concentric Circular Antenna Array Using Wavelet Mutation Based Seeker Optimization Algorithm.	IEEE MTT-S Chapter 2406-1050 Microwave Review	24/1/8-17/May 17, 2018	ISSN: 1450-5835	NSMT/ SCOPUS	--	--
15	Bhupendra Singh Reniwal, Vikas Vijayvargiya, Pooran Singh, Nand Kishor Yadav, Santosh Kumar Vishvakarma,	An Auto-Calibrated Sense Amplifier with O set Prediction Approach for Energy-Efficient SRAM, Circuits, Syst. Signal Process	Circuits, Syst. Signal Process, Springer	38/ 1/ 1482–1505/August , 2018	DOI: 10.1007/s00034-018-0934-1/ ISSN: 1531-5878	Springer/S CI	1.998	--
16	Sankalita Biswas, Aniruddha Chandra, Sanjay Dhar Roy.	Single CCA Cross-Layer Energy and Throughput comparison with double CCA case for Beacon enabled 802.15.4 Networks	Special issue on Traffic Engineering and Optimization in Next Generation Networks, IET Networks.	1/1/1-10/ December 2018	DOI: 10.1049/iet-net.2018.5108/ ISSN: 1751-8644	IET/SCI	1.094	--
17	VankayalaChethan Prakash, G. Nagarajan, and P. Ramanathan	Indoor Channel Characterization with Multiple Hypotheses Testing in Multiple Input Multiple Output	Journal of Computation and Theoretical Nanoscience, American Scientific Publishers	16 / 1-5	ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online)	American Scientific Publishers/ SCOPUS	--	--
18	Satrughan Kumar, Jigyendra Sen Yadav, Kumar Manoj, Subramanian Rajasekaran	Moving Object Localization in Video Sequences under Static and Dynamic Background Conditions	International Journal of Intelligent Engineering and Systems	12/1/145-155/ February 2019	DOI: 10.22266/ijies2019.0430.15 ISSN:2185-3118	Intelligent Networks and Systems Society/ SCOPUS	--	--

**Madanapalle Institute of Technology and Science  
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19	Satrughan Kumar, Jigyendra Sen yadav, Kumar Manoj, S. Rajsekaran, Ranjeet Kumar	Object localization and Tracking Using Background Subtraction and Dual-Tree Complex Wavelet Transform	International Journal of Engineering and Advanced Technology	8/ 1/ 421-427/ February 2019	DoI: C588302831919© BEIESP/ ISSN:2249-8958	Blue Eyes Intelligence Engineering & Sciences Publication / SCOPUS	--	--
20	Sumit Kale	Performance Improvement and analysis of PtSi Schottky Barrier p-MOSFET	Silicon	In Press	DOI:10.1007/s12633-019-00161-1	Springer/SCI	1.25	
21.	M. Karthikeyan, R. Sitharthan	Compact four-port circulator based on 2D photonic crystals with a 90° rotation of the light wave for photonicintegrated circuits applications	Laser Physics	29/6/June 2019	DOI: 10.1088/1555-6611/ab1413	IOP/SCI	1.1	-
22	Gaurav Varshney, Shailza Gotra, V. S. Pandey And R. S. Yaduvanshi	Dual-band circularly polarized dielectric resonator antenna with the miniaturization technique	IET Microwave Antennas and Propagatio	In Press		IET/SCI	1.73	--
23	Ankan.Bhattacharya ,Bappaditya Roy, S.K.Chowdhury and A.K. Bhattacharjee	Compact Printed Hexagonal Ultra-Wideband Monopole Antenna with Band-Notch Characteristics	Indian Journal of Pure & Applied Physics (JPAP)	Vol.57, pp. 272-277, April 2019.	ISSN: 0975-1041	sci	.582	--
24	Lucky Agarwal, ShwetaTripathi and P.Chakrabati.	Effects of Copper concentration on structural and optical properties of Copper doped ZnO prepared by Sol-Gel spin coating method.	Materials Focus	7, 18-25, Feb,2018	<a href="https://doi.org/10.1166/mat.2018.1470/2169-4303">https://doi.org/10.1166/mat.2018.1470/2169-4303</a>	ASP/ SCI	--	--
25	P Kumar and B. Bhowmick	Comparative analysis of hetero gate Dielectric hetero structure Tunnel FET and Schottky barrier FET with n+ pocket doping for Suppression of Ambipolar conduction and improved RF/linearity performances	JNO	14/1/261-271	DOI: <a href="https://doi.org/10.1166/jno.2019.2488">https://doi.org/10.1166/jno.2019.2488</a>	American Scientific Publishers	1.069	--
26	P Kumar and B. Bhowmick	Source-Drain Junction Engineering Schottky Barrier MOSFETs and their Mixed Mode application	Silicon		10.1007/s12633-019-00170-0	Springer	0.704	--

**Madanapalle Institute of Technology and Science  
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27	Singh P., Reniwal B.S., Vijayvargiya V. and Vishvakarma S.K.	Ultra-Low Power-High Stability, Positive Feedback Controlled (PFC) 10T SRAM cell for Look up Table (LUT) Design	Integration, The VLSI Journal	Vol. 62, no.1, pp.1-13, June 2018	<a href="https://doi.org/10.1016/j.vlsi.2018.03.006">https://doi.org/10.1016/j.vlsi.2018.03.006</a>	Science Direct/SCI	0.96	1
28	Reniwal B., Vijayvargiya V., Vishvakarma S.K. and Dwivedi D.	An Auto-Calibrated Sense Amplifier with O set Prediction Approach for Energy-Efficient SRAM	Circuits, Syst. Signal Process, Springer,	Vol. 38, no.4, pp.1482-1505, Aug 2018	<a href="https://doi.org/10.1007/s00034-018-0934-1">https://doi.org/10.1007/s00034-018-0934-1</a> and ISSN:0278-081X	Springer/SCI	1.998	--
29	Jyoti P. Patra and Poonam Singh	A novel LMMSE-EM Channel Estimator for High Mobility STBC-OFDM System	Journal of Circuit, System and Computer, World Scientific	Online ready	DOI-10.1142/S0218126619502232	World Scientific SCI	0.595	--
30	Jyoti P. Patra and Poonam Singh	Efficient Signal Detection Methods for High Mobility OFDM System with Transmit Diversity	Arabian Journal for Science and Engineering, Springer	vol. 44, no. 3, pp. 1769-1768, March- 2019	DOI 10.1007/s13369-018-3103-8	Springer SCI	1.092	--
31	Jyoti P. Patra and Poonam Singh	On Signal Detection for OSTBC-Based Amplify-and-Forward Cooperative Relaying System Over Time Selective Channel	Wireless Personal Communication, Springer	vol. 101, no. 4, pp. 2209-2226, August-2018	DOI 10.1007/s11277-018-5812-4	Springer SCI	1.200	--
32	S. Hoque, W. Arif, D. Sen and S. Baishya	Analysis of Spectrum Handoff under General Residual Time Distributions of Spectrum Holes in Cognitive Radio Networks	Journal of Information Science and Engineering (JISE)	vol. 34, no. 4, pp. 851-867, 2018	10.6688/JISE.201807_34(4).0004	SCIE	0.468	0
33	B. K. Singh and Shweta Tripathi	Performance Analysis of Schottky Diodes Based on Bi Doped p-ZnO Thin Films	Superlattices and Microstructures	120, 288-297, August 2018	<a href="https://doi.org/10.1016/j.spmi.2018.05.054">https://doi.org/10.1016/j.spmi.2018.05.054</a> /0749-6036	Elsevier	2.123	--
34	Chandramauleshwr Roy and Aminul Islam	Design of Differential TG based 8T SRAM Cell for Ultralow Power Applications	Microsystem Technologies	DOI: 10.1007/s00542-018-4035-7	0946-7076	SCI	1.58	--

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35	Dheeren Ku Mahapatra and LakshiProsad Roy	Efficient Modelling of SAR Texture with Gamma-Inverse Gamma Distribution for MAP-based Speckle Suppression	IET Radar, Sonar & Navigation	February 2019	10.1049/iet-rsn.2018.5230	IET/ SCI	1.837	--
36	S. Hoque and W. Arif	Impact of Secondary User Mobility on Spectrum Handoff under generalized residual time distributions in Cognitive Radio Networks	International Journal of Electronics and Communications (AEÜ)	vol. 86, pp. 185-194, 2018	<a href="https://doi.org/10.1016/j.aeue.2018.01.031">https://doi.org/10.1016/j.aeue.2018.01.031</a>	SCIE	2.115	01
37	S. Hoque, D. Sen, and W. Arif	Impact of Residual Time Distributions of Spectrum Holes on Spectrum Handoff performance with Finite Switching Delay in Cognitive Radio Networks	International Journal of Electronics and Communications (AEÜ)	vol. 92, pp. 21-29. 2018	<a href="https://doi.org/10.1016/j.aeue.2018.05.016">https://doi.org/10.1016/j.aeue.2018.05.016</a>	SCIE	2.115	01
38	Sitharthan, R., T. Parthasarathy, S. Sheeba Rani, and K. C. Ramya.	An improved radial basis function neural network control strategy-based maximum power point tracking controller for wind power generation system.	Transactions of the Institute of Measurement and Control	Vol:1, PP-1-13	10.1177/0142331218823858	Sage/SCI	1.579	--
39	Sitharthan, R., Sundarabalan, C.K., Devabalaji, K.R., Yuvaraj, T. and Mohamed Imran, A	Automated power management strategy for wind power generation system using pitch angle controller.	Measurement and Control	Vol:1, PP: 1-14	10.1177/0020294019827330	Sage/SCI	0.878	--
40	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	ETRT based Cross Layer Model for Improving Lifetime of Low Power Wireless Networks- An Internet of Things Perspective	Physical Communication, Elsevier	Volume 29, August 2018, Pages 307-318		SCI	--	4
41	Gaurav Varshney, Astha Verma, V. S. Pandey, R. S. Yaduvanshi and Rajni Bala	A proximity coupled wideband graphene antenna with the generation of higher order TM modes for THz applications	Optical Materials	Vol. No. 85 Page No. 456-463 Month/Year November/2018	<a href="https://doi.org/10.1016/j.optmat.2018.09.015">https://doi.org/10.1016/j.optmat.2018.09.015</a> ISSN: 0925-3467	Elsevier/SCI	2.32	1
42	Shailza Gotra, Gaurav Vaarshney,	Dual-Band Circular Polarization Generation Technique with the Miniaturization of a Rectangular Dielectric Resonator Antenna	IET Microwave Antennas and Propagation	1	<a href="https://doi.org/10.1049/iet-map.2019.0030">10.1049/iet-map.2019.0030</a> ISSN: 1751-8733	IET Microwave Antennas	1.739	--

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	V. S. Pandey and R. S. Yaduvanshi					and Propagatio n/SCI		
43	Guarav Varshney, Shailza Gotra, V. S. Pandey and R. S. Yaduvanshi	A tunable single/dual-band notch graphene filter for THz applications	JEMS Springer	1 (accepted)	Accepted ISSN; 0361-5235	Springer/S CI	1.566	--

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Faculty Book Chapter, Academic Year 2018-2019

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1	P. Anitha, P. Ramanathan and P.T. Vanathi	Modified Low-Power Built-in Self-test for Image Processing Application	Lecture Notes in Computational Vision and Biomechanics, Springer Publications	31/199-206/January, 2019	DOI: /10.1007/978-3-030-04061-1/ ISSN: 2212-9413	Springer	NA	--
2	O Navin, G Kumar, N Kumar, K Baderia, R Kumar, A Kumar R- Springer Scopus	Peaks Detection Using Shannon Energy for HRV Analysis	Lecture Notes in Electrical Engineering	256	<a href="https://doi.org/10.1007/978-981-13-2553-3_39">https://doi.org/10.1007/978-981-13-2553-3_39</a>	Springer	--	--
3	Sarwesh P., N. Shekar V. Shet & KChandrasekaran	Reliable Cross Layer Design for E-health Applications - IoT Perspective	Springer , Book Chapter	97-113	ISBN-978-3-319-70688-7, 2018	Scopus	--	4
4	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	Envisioned Network Architecture for IoT Applications	Springer , Book Chapter	83-102	ISBN978-3-319-92564-6	Scopus	--	3

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