Electronics & Communication Engineering Department
Institute of Engineering & Technology, Sitapur Road, Lucknow

Research Paper Published in Journals 2019-2025

2024-2025

S.NO.	Title Of Paper	Name Of The Author (s)	Name Of Journal	Month & Year Of Publication	DOI	SCIE
1.	Charge Shared based Low Power and High-Speed Dynamic Comparator for High Frequency Analog Signal Processing Architecture, ,	Anurag Yadav, Subodh Wairya	Integration The VLSI Journal	July, 2025.	https://doi.org/10.1016/j.vlsi.2025.102426	**SCIE**
2.	Low Power, Sensing Small Differential Input Signal of High Speed Dynamic Comparator with Transconductance improved Latching stage	Anurag Yadav, Subodh Wairya	Journal of Circuits, Systems and Computers	May 2025	Accepted	**SCIE**
3.	Effect of Hetero-Dielectric Gate on Direct Current, Radio Frequency/Analog, and Linearity Performance of Dual-Source Vertical Tunnel Field Effect Transistor for Low-Power Applications	Sheetal Singh, Subodh Wairya	Semiconductors	April 2025	Accepted	**SCIE**
4.	Framework for Emerging Spectrum Sensing Techniques and Coexistence of Symbiotic Radio in Internet of Things Environment	Jaspreet Kaur, Neelam Srivastava	IETE Journal of Research	19 March 2025	https://doi.org/10.1080/03772063.2025.2475116	**SCIE**
5.	Revolutionizing optical burst switching networks with dual auto net and marine swarm optimization techniques	Gayatri Tiwari, RCS Chauhan	Optical and Quantum Electronics, Springer Nature	March, 2025	https://doi.org/10.1007/s11082-025-08124-0	**SCIE**
6.	A Design of Modulator Power Supply and Pulse Modulator Circuit for a Conventional Traveling Wave Tube Amplifier	Jitendra Kumar Shukla, Kailash Kushwaha, Rajiv Kumar Singh	IETE Journal of Research	May 2025	https://doi.org/10.1080/03772063.2025.2499944	**SCIE**
7.	Enhancing security in electromagnetic radiation therapy using fuzzy graph theory	Radhey Lal, Rajiv Kumar Singh, Dinesh Kumar Nishad & Saifullah Khalid	Scientific Reports	16 April 2025	-	**SCIE**
8.	Physio-chemical characterization, in-vitro biocompatibility, and antimicrobial activity of magnetite nanoparticles synthesized via sol-gel route	Abhishek Nigam, Bharat Singh, Sheetal Saini, Ambak Kumar Rai, SJ Pawar	Inorganic and Nano-Metal Chemistry	Jan 2025	https://doi.org/10.1080/24701556.2023.2240771	**SCIE**
9.	Biosynthesis of Zinc Oxide Nanoparticles Using Ficus racemose Leaf Extract via Microwave Irradiation Route: Characterization and Investigation of Antibacterial	Abhishek Nigam, Shagun Varshney, Samarjit Singh, Upendra Kumar, Nidhi Mishra, SJ Pawar	Advances in Condensed Matter Physics	2025	https://doi.org/10.1155/acmp/7996602	**SCIE**
10.	Designing a simulator for implementing Lea's target radiobiological model in cancer treatment	Radhey Lal a b, Rajiv Kumar Singh a b,	Journal of Radiation Research and Applied Sciences	1 March, 2025	https://doi.org/10.1016/j.jrras.2025.101327	**SCIE**

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11.	Design and Analysis of Low Power and High Speed Dynamic Comparator with Transconductance Enhanced in Latching stage for ADC Application	Anurag Yadav, Subodh Wairya,	Journal of Circuits, Systems and Computers	July, 2024.	https://doi.org /10.1142/S02 18126624501 986	SCIE
12.	CPW-Fed Microstrip Antenna Design Uses Machine Learning Approach.	Sonmati Verma, Rajiv Kumar Singh, Neelam Srivstava, Pinku Ranjan	Microwave Journal	DEC, 2024	ISSN **0192-6225**	SCIE
13.	Compact Non-Planner Inverted Stacked Modified Microstrip Antenna With Enhanced Performance of Ultra-Wideband Applications	Sonmati Verma, Rajiv Kumar Singh, Neelam Srivastava, Alka Verma, Anirban Sarkar	Microwave and Optical Technology Letters	DEC, 2024	https://doi.or g/10.1002/mo p.70063	SCIE
14.	Performance enhancement of frequency-doubling gyroklystron amplifier by magnetic field tapering	Abhijeet Singh, Madan Singh Chauhan Neelam Srivastav	Phys. Plasmas 31, 103104	Oct (2024)	https://doi.or g/10.1063/5.0 228968	SCIE
15.	Design and simulation of a Ka-band frequency doubling gyroklystron amplifier	Abhijeet Singh, Madan Singh Chauhan, Neelam Srivastav	AIP Advances 2024	September 18 2024	https://doi.or g/10.1063/5.0 190157	SCIE
16.	Channel Modelling in Underwater Media: A Wireless Communication Technique Perspective,	Sushil Kuma`r Gupta, RCS Chauhan, Vinay Kumar, , 2024.	Physica Scripta, IOP Publishing, ,	OCT 2024	DOI : DOI 10.1088/1402 -4896/ad8282	SCIE
17.	Mobility Management in Heterogeneous Network of Vehicular Communication With 5G: Current Status and Future Perspectives,	Mohd Javed Khan, RCS Chauhan,	IEEE Access, IEEE Xplore Digital Library ol. 12, pp. 86271-86292, 2024.	JUNE 2024	DOI : 10.1109/ACC ESS.2024.340 9832	SCIE
18.	Linearity and noise evaluation based analysis of extended source heterojunction double gate tunnel FET,	Sheetal Singh, Subodh Wairya	Micro and Nanostructures, Elsevier, vol. 194, 207939, , 2024.	OCT 2024	DOI : https://doi.org /10.1016/j.mic rna.2024.2079 39	SCIE

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Journal	Month & Year Of Publication	DOI	SCI/SCOPUS/UGC CARE
1.	Carry look-ahead and ripple carry method based 4-bit carry generator circuit for implementing wide-word length adder	Anum Khan, Arindom Chakraborty, Upal Barua Joy Subodh Wairya Mehedi Hasan	Microelectronics Journal	OCT, 2023	https://doi.org/10.1016/j.mejo.2023.105949	SCIE
2.	Linearity and noise evaluation based analysis of extended source heterojunction double gate tunnel FET,	Sheetal Singh, Subodh Wairya,	Micro and Nanostructures, Elsevier, vol. 194, 207939, , 2024.	OCT 2024	DOI : https://doi.org/10.1016/j.micrna.2024.207939	SCI
3.	An optimization of target classification tracking and mathematical modelling for control of autopilot	Digvijay Pandey, Subodh Wairya	The Imaging Science Journal	15 Feb 2023	DOI : https://doi.org/10.1080/13682199.2023.2169987	SCIE
4.	A 6.7GHz, 89.33 uW power and 81.26% tuning range dual input ring VCO with PMOS varactor	Mohd Saqib, Subodh Wairya Anurag Yadav	Journal of Circuits, Systems and Computers, World Scientific 2023.	10 Feb 2023	DOI : 10.1142/S0218126623501992	SCIE
5.	DWT-SVD Based Robust Watermarking Technique for Secure Medical Image Diagnosis	Raj Vikram Singh, Subodh Wariya Rajiv Kumar Singh	Journal of Survey in Fisheries Sciences	2023	https://doi.org/10.17762/sfs.v10i3S.118	SCOPUS
6.	Different Watermarking Technique used in Medical Image Security	Raj Vikram Singh, Subodh Wariya Rajiv Kumar Singh	Advanced Engineering Science	2023	https://doi.org/10.1007/978-3-319-57699-2	SCOPUS
7.	Design and Analysis of Low Power and High Speed Dynamic Comparator with Transconductance Enhanced in Latching stage for ADC Application	Anurag Yadav, Subodh Wairya,	Journal of Circuits, Systems and Computers	2024	DOI : https://doi.org/10.1142/S0218126624501986	SCIE
8.	Efficient and Power-Aware Design of a Novel Sparse Kogge-Stone Adder using Hybrid Carry Prefix Generator Adder	Anum Khan, Subodh Wairya	Advances in Electrical and Computer Engineering	2024	DOI : 10.4316/AECE.2024.01008	SCIE
9.	MXene-Graphene-MXene–Mediated Heterostructure-Based Surface Plasmon Resonance Sensor for the Detection of Leptospirosis Bacteria in Rodent Urine	Rajeev Kumar, Sarika Pal, Narendra Pal, Alka Verma & Yogendra Kumar Prajapati	Plasmonics	28 February 2024	DOI https://doi.org/10.1007/s11468-024-02246-z	SCIE
10.	Smart Farming With Iot: Enhancing Agricultural Efficiency And Sustainability Through Real-Time Data And Mobile Technology	Yogita verma, Hanshika Verma, Anvisha Chaturvedi, Sujal Agrahari , Pallavi Pant, Neelam Srivastava	JETIR	June 2024		NSCI

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Journal	Month & Year Of Publication	DOI	SCI/SCOPUS/UGC CARE
1.	Energy-efficient Multiple Cooperative Moving Relay Selection for Heterogeneous NOMA Systems	M J Khan, RCS Chauhan Indrasen Singh	International Journal of Communication Systems	15 DEC, 2022	https://doi.org/10.1002/dac.5408	SCIE
2.	Static Single Phase Contention Pulsed Latch for Low Voltage Operation	Pragati Mishra, Neelam Srivastava	Lecture Notes in Electrical Engineering	2 July 2023	https://doi.org/10.1007/978-981-99-0973-5	SCOPUS
3.	Performance Analysis of Pulsed Latches for Low-Voltage Operation	Pragati Mishra, Neelam Srivastava	Lecture Notes in Electrical Engineering	2 July 2023	https://doi.org/10.1007/978-981-99-0973-5_42	SCOPUS
4.	Configuration for a Grounded Lossy Impedance Simulator Employing CC-CFAs and Grounded Passive Elements	Manoj Kumar Jain, Amrita Singh Subodh WairyA	SERBIAN JOURNAL OF ELECTRICAL ENGINEERING	1 Feb, 2023	https://doi.org/10.2298/SJEE2302147J	SCOPUS
5.	Design of Compensated Supply Circuit Topology for a Ring Oscillator	Vivek Mishra, Anurag Yadav Subodh Wairya	International journal of computing and digital systems	10 OCT, 2022	https://dx.doi.org/10.12785/ijcds/120181	SCOPUS
6.	Performance Evaluation of Low Power Hybrid Combinational Circuits using Memristor	Jyoti Garg, Subodh Wairya	International Journal of Electrical and Electronics Research	Nov, 2022	10.37391/IJEER	SCOPUS
7.	Curvelet Transform Based Compression Algorithm for Low Resource Hyperspectral Image Sensors,	shrish bajpai, Divya Sharma, Monauwer Alam,, 3Vishal Singh Chandel ,Amit Kumar Pandey, and Suman Lata Tripathi	Journal of electrical and computer engineering,	20 Feb 2023	DOI : https://doi.org/10.1155/2023/8961271	SCOPUS
8.	A review on various sensing prospects of SPR based photonic crystal fibers	S. Singh, B. Chaudhary, A. Upadhyay, Divya Sharma, N Ayyanar, Sofyan A Taya	Photonics and Nanostructures-Fundamentals and Applications	5 May 2023	https://doi.org/10.1016/j.photonics.2023.101119	SCI

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Journal	Month & Year Of Publication	DOI	SCI/SCOPUS/UGC CARE
1.	Outage Probability and Throughputof Cooperative NOMA with Moving Relay in Heterogeneous Network.	M. J. Khan, Ram Chandra Singh Chauhan Indrasen Singh	Transaction on Emerging Telecommunications Technologies	31, July, 2022	DOI : https://onlinelibrary.wiley.com/doi/10.1002/ett.4616	SCIE
2.	Performance Analysis of Heterogeneous Network using Relay Diversity in High Speed Vehicular Communication	M J Khan, RCS Chauhan Indrasen Singh	Wireless Personal Communications	22, Feb, 2022	https://doi.org/10.1007/s11277-022-09595-0	SCIE
3.	Impact of CSI on Single channel In-band Full-duplex Radio	Ashish Kumar Rao, Shailendra Singh Neelam	Silicon	27, Jan 2022	https://doi.org/10.1007/s12633-021-01559-6	SCIE

	implemented with 60 nm Vertical TFET-based CMOS structure	Srivastava Rajiv Kumar Singh			
4.	Mobile FD-CR with High-Speed VTFET CMOS SOI Switch Under Channel Estimation Error	Ashish K. Rao, Santosh kumar Sabat Neelam Srivastava Rajiv K Singh	Silicon	28, Jan, 2022	https://doi.org/10.1007/s12633-022-01688-6	SCIE
5.	Impact of CSI on Single channel In-band Full-duplex Radio implemented with 60 nm Vertical TFET-based CMOS structure	Ashish K. Rao, Shailendra Singh Neelam Srivastava Rajiv K Singh	Siliccon	27 Jan, 2022	https://doi.org/10.1007/s12633-021-01559-6	SCIE
6.	Comparative analysis of full duplex and half duplex relay for high-speed vehicular scenario	Mohd Javed Khan, Ram Chandra Singh Chauhan Indrasen Singh	Wireless Personal Communications	1-14, July 2022	http://dx.doi.org/10.1007/s11277-022-09926-1	SCIE
7.	Performance and Area Optimization of SRAM Cell in Nanocomputing Application	Anurag Yadav, Subodh Wairya	International Journal of Computing and Digital System	Aug, 2021	DOI : https://dx.doi.org/10.12785/ijcds/110182	SCOPUS
8.	Performance Evaluation of Highly Efficient XOR and XOR-XNOR Topologies using CNTFET for Nanocomputation, 12, No.1 (Jul-2022)	Anum Khan, Subodh Wairya	Int. J. Com. Dig. Sys.	July, 2022	DOI : https://dx.doi.org/10.12785/ijcds/120120	SCOPUS
9.	An approach for object tracking, categorization, and autopilot guidance for passive homing missiles	Digvijay Pandey, Subodh Wairya Manvinder Sharma Anuj Kumar Gupta, Rahul Kakkar, Binay Kumar Pandey	Aerospace Systems	15 June 2022	https://doi.org/10.1007/s42401-022-00150-0	SCOPUS
10.	An Energy Dissipation and Cell Optimization of Vedic Multiplier Topologies for Nanocomputing Applications	Divya Tripathi, Subodh Wairya	Turkish Journal of Computer and Mathematics Education , Science Research Society	2021	DOI: Vol.12 No.14 (2021), 1490–1510. https://turcomat.org/index.php/turkbilmat/article/view/10473/7889	SCOPUS
11.	Design and Analysis of Triple Metal Vertical TFET Gate Stacked with N-Type SiGe Delta-Doped Layer	Shilpi Gupta, Subodh Wairya, S Singh	Silicon, Springer Journals Publication,	June 2021	DOI : https://doi.org/10.1007/s12633-021-01211-3	SCIE
12.	Analytical modeling and simulation of a triple metal vertical TFET with hetero-junction gate stack, ,	Shilpi Gupta, Subodh Wairya, Shaliendra Singh,	Superlattices and Microstructures, Academic Press,	September 2021	DOI : https://doi.org/10.1016/j.spmi.2021.106992,	SCIE
13.	An Advanced Morphological Component Analysis, Steganography, and Deep Learning-Based System to Transmit Secure Textual Data,	B K Pandey, Digvijay Pandey, Subodh Wairya, Gaurav Agarwal,	International Journal of Distributed Artificial Intelligence , IGI Global U.S.A, 2021.	July-Dec 2021	DOI 10.4018/IJDAI.2021070104	NSCI
14.	A Deep Neural Network-Based Approach for Extracting Textual Images from Deteriorate Images	B K Pandey, Digvijay Pandey, Subodh Wairya, Gaurav Agarwal	EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, EAI,	Sep 2021	DOI : http://eprints.eudl.eu/id/eprint/7138/	SCOPUS

15.	Secret data transmission using advance steganography and image compression, Int. J. Nonlinear Anal. Appl. Volume 12, Special Issue, Winter and Spring 2021	Digvijay Pandey, SubodhWairya, Raghda Salam Al Mahdawib, Saif Al-din M Najimc, Haitham Abbas Khalafd,Shokhan M Al-Barzinjic, Ahmed J Obaide	International Journal of Nonlinear Analysis and Applications, Semnan University	OCT 2021	DOI : 10.22075/ijnaa. 2021.5635	SCI
16.	Deep Learning and Particle Swarm Optimisation-Based Techniques for Visually Impaired Humans' Text Recognition and Identification	Binay Kumar Pandey, Digvijay Pandey, Subodh Wairya, Gaurav Aggarwal, Rahul Rastogi,	Augmented Human Research, Springer Singapore	OCT 2021	DOI : https://doi.org/ 10.1007/s4113 3-021-00051-5	NSCI

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Journal	Month & Year Of Publication	DOI	SCI/SCOPUS/UGC CARE
1.	Performance enhancement of circularly polarized patch antenna using slotted circular EBG-based metasurface,	Alka Verma , Anil Kumar Singh , Neelam Srivastava	Frequenz 1, Walter de Gruyter	6 OCT 2020	https://doi.org /10.1515/freq -2020-0051	ESCI, SCOPUS
2.	Prediction of Breast Cancer Using Extremely Randomized Clustering Forests (ERCF) Technique: Prediction of Breast Cancer	Akhil Gupta, Rohit Anand, Digvijay Pandey, N Sindhwani, Subodh Wairya, Binay Kumar Pandey,	International Journal of Distributed Systems and Technologies , IGI Global Publisher, Hershey PA, USA, , pp. IJDST vol.12, no.4 2021:	2021	DOI : http://doi.org/1 0.4018/IJDST. 287859	SCOPUS, ESCI
3.	Design of 26GHz Cascode Low Noise Amplifier for 5G Wireless Applications on 0.18μm CMOS Technology	Apsana Khatoon, Neelam Srivastava	Journal of Xi'an University of Architecture & Technology, Science Press	2021	https://doi.org/ 10.37896/JXA T13.6/31113	UGC CARE, SCOPUS
4.	Cooperative Spectrum Sensing using Mobile Full-Duplex Cognitive Radio and Non-time-slotted Primary user Activity 2021	Ashish K Rao, S. Sabat, Neelam Srivastava, Rajiv K. Singh	Transactions on Electrical and Electronic Materials, Springer	Feb 2021	DOI : 10.1007/s4234 1-021-00283-7	SCOPUS

			Journals Publication,			
5.	Low Power PPN Inverter based 10T SRAM Cell, Indian Journal of Science and Technology, Indian Society of Education and Environment	APARNA, R C S CHAUHAN	Indian Journal of Science and Technology, Indian Society of Education and Environment	June, 2021	DOI: 10.17485/IJST/v14i20.400	UGC CARE
6.	A study of Different SRAM Cell Designs, pp. 303-309, 2021.	Aparna, Ram Chandra Singh Chauhan,	International Journal of Emerging Trends in Engineering Research, World Academy of Research in Science and Engineering	March, 2021	https://doi.org/10.30534/ijeter/2021/24932021	NSCI
7.	Power Efficient Universal Biquadratic filter designing using OTA	Rahul Singh, Ram Chandra Singh Chauhan,	Indian Journal of Science and Technology, Indian Society for Education and Environment Publication	08 September 2021	DOI: 10.17485/IJST/v14i29.2293	UGC
8.	True Single Phase Clock based UP-DOWN Counter using GDI Cell for Low Power Applications, International journal of computing and digital systems, pp. 1-9, 2021.	Jitesh Singh, Ram Chandra Singh Chauhan	University of Bahrain Scientific Journals, ,	Aug 2021	DOI : https://dx.doi.org/10.12785/ijcds/120162	SCOPUS
9.	Evaluation of Electromagnetic Radiation from 4G-Network Base Transceiver Station	Neeraj Kumar, Radhey Lal, Rajiv Kumar Singh,	Journal of Huazhong University of Science and Technology, Huazhong University of Science and Technology,	2021		SCIMAGO SCOPUS
10.	Assessment of Electromagnetic Radiation of Radio Frequency Generated by a LTE Base Station	Neeraj Kumar, Radhey Lal, Rajiv Kumar Singh,	Journal of Huazhong University of Science and Technology, Huazhong University of Science and Technology	2021	DOI : https://app.box.com/s/w24yixkoq7cy09sh6bqyhsmiagqtu5z6	SCIMAGO SCOPUS

11.	Comparative study of Magnetic Tunnel Junction based 4T-MRAM,	Jyoti Garg, Niharika Varshney , Subodh Wairya	International Journal of Advanced Research in Engineering and Technology,	MAY 2020	DOI : 10.34218/IJARET.11.5.2020.128	SCOPUS
12.	FPGA implementation of Universal Biquadratic Filter,	Rahul Singh, Ram Chandra Singh Chauhan,	International Journal of Emerging Technologies and Innovative Research, IJPUBLICATION, 2020.	NOV 2020	ISSN:2349-5162	UGC
13.	Assessment on Delay and Power in Sequential Circuits and Efficient Designing Architectures,	Jitesh Singh, RCS Chauhan,	An International Journal of Emerging Technologies and Innovative Research(JETIR), IJPUBLICATION, , pp. 462-468, 2020.	SEP 2020	ISSN:2349-5162	UGC

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Journal	Month & Year Of Publication	DOI	SCI/SCOPUS/UGC CARE
1.	A compact circularly polarized modified printed monopole antenna for wireless applications,	Alka Verma , Anil Kumar Singh , Neelam Srivastava	Electromagnetics, 40, Taylor & Francis	20 FEB 2020	https://doi.org/10.1080/02726343.2020.1838056	SCI
2.	A Hybrid Scheme for Low PAPR in Filter Bank Multi Carrier Modulation.,	Mohit Kumar Srivastava , Manoj Kumar Shukla , Neelam Srivastava	Wireless Personal Communications , Springer Journals Publication, 2020,	6 APRIL 2020	0929-6212 / 1572-834X	SCI
3.	Slot loaded EBG-based metasurface for performance improvement of circularly polarized antenna for WiMAX applications,	Alka Verma , Anil Kumar Singh , Neelam Srivastava	International Journal of Microwave and Wireless Technologies , Cambridge university Press ,	10 September 2019	DOI: https://doi.org/10.1017/S1759078719001211	SCI

4.	Circularly Polarized Microstrip Antenna Using SLPD Electromagnetic Band Gap Structure,	Alka Verma , Anil Kumar Singh , Neelam Srivastava	Frequenz 1, Walter de Gruyter	September 2019	https://doi.org /10.1515/freq-2019-0081	ESCI, SCOPUS
5.	Performance improvement of energy detector in cognitive radio using SECp diversity combining technique over fading channel, , 2020,	Rupali Agrawal , Neelam Srivastava , Himanshu Katiyar	International Journal of Wireless and Mobile Computing , Inderscience Publishers	3 MARCH 2020	https://doi.org/1 0.1504/IJWMC. 2020.105706	SCOPUS
6.	A secure stop and wait communication protocol for disturbed networks,	Varun Shukla , Atul Chaturvedi , Neelam Srivastava	Wireless Personal Communicat ions , Springer Journals Publication, 2020,	JAN2020	DOI: 10.1007/s1127 7-019-06760-w	SCI
7.	Chinese Remainder Theorem based Fully Homomorphic Encryption over Integers,	Vinod Kumar , Neelam Srivastava Publication	International Journal of Applied Engineering Research, Research India	Nov 2019	ISSN 0973-4562	SCOPUS
8.	In-band Full Duplex Radio:a survey	Ashish K Rao , Rajiv Kumar Singh , Neelam Srivastava ,	International Journal of Applied Engineering Research, Research India Publications, 2019	2019	Print ISSN 0973-4562	SCOPUS
9.	POLARIZATIONDEP ENDENT ELECTROMAGNETI C BAND GAP (PDEBG) STRUCTURES WITH CIRCULARLY POLARIZED ANTENNA,	Alka Verma , Neelam Srivastava	International Journal of Applied Engineering Research, Research India Publications,	2019	ISSN 0973-4562	SCOPUS
10.	A new one time password mechanism for client-server applications,	Varun Shukla , Atul Chaturvedi , Neelam Srivastava	Journal of Discrete Mathematical Sciences and Cryptography, Taylor & francis Online, 2019,	13 jan 2020	https://doi. org/10.1080 /09720529. 2019.16924 47	ESCI, SCOPUS

11.	A secure stop and wait communication protocol for disturbed networks,	Varun Shukla , Atul Chaturvedi , Neelam Srivastava	Wireless Personal Communications, Springer, 2019	Jan 2020	DOI: 10.1007/s11277-019-06760-w	SCI
12.	Design and Analysis of Hybrid full adder Topology using Regular and Triplet Logic Design",	Sana, Anum Khan, Subodh Wairya,	**"International Journal of Innovative Technology and Exploring Engineering (IJITEE)** (Blue Eyes Intelligence Engineering & Sciences Publication),	Oct 2020	DOI: 10.35940/ijitee.L8024.1091220	SCOPUS
13.	Hybrid deep neural network with adaptive galactic swarm optimization for text extraction from scene images	**Pandey, D**., Pandey, B.K. & Wairya, S.	Soft Comput. 25(2): 1563	Aug 2020	https://doi.org/10.1007/s00500-020-05245-4	SCI
14.	"Energy Efficient Code Converter For Nanotechnology Applications"	**Divya Tripathi**, Subodh Wairya.,	**Journal of Critical Reviews (JCR). 2020**; 7(13)	2020	ISSN 2394-5125	NSCI
15.	"Analysis of Text Detection, Extraction and Recognition from Complex Degraded Images and Videos"	**Digvijay Pandey**, Binay Kumar Pandey, Dr. Subodh Wairya, Dr. Randy Joy M. Ventayen, Bilal Khan, Dr Monika Gupta, Dr. Tribhuwan Kumar.	**Journal of Critical Reviews (JCR) 2020**; Vol. 7, Issue 18, pp. 427	2020	ISSN 2394-5125	NSCI
16.	"An Energy Efficient Binary Magnitude Comparator for Nanotechnology Application",	**Tripathi Divya** & Subodh Wairya	**International Journal of Recent Technology and Engineering** (Blue Eyes Intelligence Engineering & Sciences Publication) Vol.8 Issue	March 2020	ISSN: 2277-3878	SCOPUS

No.	Title	Authors	Journal	Date	ISSN/DOI	Index
17.	Design of Odd-Even Parity Generator using Six Transistors XOR-XNOR Module,	Abhishek Shukla, Subodh Wairya	International Research Journal of Engineering and Technology (IRJET)	Nov 2019	e-ISSN: 2395-0056	UGC
18.	High Performance and Low Power D Flip-Flop using Pulsed Latch Technique,	Prashasti, Shivangi Jaiswal, Anum Khan , Subodh Wairya,	International Journal of Applied Engineering Research, pp. 301-305,	NOV 2019 .	ISSN 0973-4562	SCI
19.	Quantitative Analysis of Factors Affecting the Optical Burst Switching Through Fuzzy Multi Criteria Decision Making AHP Technique,	Gayatri Tiwari, Ram Chandra Singh Chauhan,	International Journal of Advanced Science and Technology, Science & Engineering Research Support Society, 2020.	APRIL 2020	ISSN: 2207-6360	SCOPUS
20.	Optical orthogonal code generation scheme and grouping of codes for optical CDMA systems,	Ram Chandra Singh Chauhan, Arvind Kumar, Prateek Raj Gautam,	International Journal of System Assurance Engineering and Management, Springer India, , pp. 91-103, 2020.	JUNE 2020	https://doi.org/10.1007/s13198-020-01007-5	SCI
21.	A review on inter satellite links free space optical communication,	Gaytri Tiwari, RCS Chauhan,	Indian Journal of Science and Technology, Indian Society of Education and Environment, , pp. 712-724, 2020.	FEB 2020	DOI : 10.17485/ijst /2020/v13i6/ 147998	UGC
22.	Realization of optimized CORDIC core for implementing sine and cosine operators,	Priyanka Shakya, RCS Chauhan,	International Journal of Engineering and Advanced Technology, Blue Eyes Intelligence Engineering & Sciences Publication, , pp. 3738-3742, 2019.	DEC 2019	ISSN :2249-8958	SCOPUS

23.	Analysis of Reduction of PAPR by Linear Predictive Coding in OFDM, 1	Sachin Verma, Amit Kumar,	International Journal for Research in Applied Sciences and Biotechnology, VANDANA PUBLISHER, vol. 6, 5, pp. 1-6, 2019.	SEP 2019	DOI : 10.31033/ijrasb.6.5.	NSCI
24.	Peak to Average Power Ratio Reduction Technique using LPC Coding in OFDM System,	Sachin Verma, Amit Kumar, Ashish Kumar Rao	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY, , vol. 6, 9, pp. 105-109, 2019.	SEP 2019	e-ISSN: 2395-0056	NSCI
25.	"Development of 2.45 GHz Patch antenna and measurement of SAR over Human head model",	Rashid Jamal, Indra Kumar Singh, Rajiv Kumar Singh,	International Journal of Applied Engineering Research, Research India Publications, , pp. 221-226, 2019.	NOV 2019	ISSN 0973-4562	SCOPUS
26.	A basic concept to anechoic chamber and determination of highly selective absorber material with respect to insertion loss and refection coefficient, , pp. 196-199, 2019	Rashid Jamal, Rajiv Kumar Singh, Indra Kumar Singh,	International Journal of Applied Engineering Research, Research India Publications,	NOV 2019	ISSN 0973-4562	SCOPUS
27.	In-band Full Duplex Radio: A survey,,	Ashish Kumar Rao, Rajiv Kumar Singh, Neelam Srivastava,	International Journal of Applied Engineering Research, Research India Publications , pp. 183-189, 2019.	NOV 2019	ISSN 0973-4562	SCOPUS
28.	Development of 2.45 GHz Patch antenna and measurement of SAR over Human head model	Rashid Jamal Indra Kumar Singh Rajiv Kumar Singh	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14,	NOV 2019	ISSN 0973-4562	SCOPUS

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Research Paper Published in Conferences (2019-2025)

2024-2025

S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
1.	Performance Analysis for Electrical Noise Capabilities of TFET Configuration Topologies for Low Power Application	Sheetal Singh, Subodh Wairya	International conference on Signal Processing and Advance Research in Computing	2024	10.1109/SPARC61891.2024.10828987
2.	Design and Performance Evaluation of Microstrip Patch Antenna with Optimum Parameters for S Band Applications	Amit Kumar Pathak, Maneesha Dwivedi, Neelam Srivastava	2023 International Conference on Electrical, Electronics, Communication and Computers (ELEXCOM)	2024	10.1109/ELEXCOM58812.2023.10370493
3.	Performance Evaluation of a Compact U-shaped Patched Antenna for C-Band Applications	Amit Kumar Pathak, Maneesha Dwivedi, Neelam Srivastava	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	2024	10.1109/ICCCNT56998.2023.10307299
4.	Design and Implementation of Microstrip Antenna Array with Improved Gain for 5G Communication	Rajanish Kumar Chaursiya, Maneesha Dwivedi, Neelam Srivastava	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	2024	10.1109/ICCCNT56998.2023.10307314
5.	Performance Analysis of Fast & Power Efficient Dynamic Comparator Topologies	Agyenya Anand, Anurag Yadav, Subodh Wairya	2nd International Conference on Device Intelligence Computing and Communication Technologies, Graphic Era University	2024	10.1109/DICCT61038.2024.10533168
6.	Smart Traffic Flow Management System using FPGA	D. Sharma, A. Raj, A. Srivastava, A. Sharma, S. Wairya	Second International Conference Computational and Characterization Techniques in Engineering & Sciences	2025	10.1109/IC3TES62412.2024.10877430
7.	Analyzing Bit Error Rate Performance in Downlink Cooperative NOMA Systems with Various Modulation Techniques across Varied Fading Channels	Kirti Prakash, RCS Chauhan	2024 Global Conference on Communications and Information Technologies	2025	10.1109/GCCIT63234.2024.10862333

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
8.	Design and Analysis of Dual Source Vertical TFET with and without channel overlapped structure	Archana, Sheetal Singh, Subodh Wairya	10th International Conference on Microelectronics, Circuits and Systems, (Micro2023)	11 DEC 2023	**DOI:** 10.1109/TEECCON59234.2023.10335835
9.	Dual Source Vertical TFET Channel Overlapped Structure with Enhanced RF/Analog Performance for Low-Power-Applications	Archana, Sheetal Singh, Subodh Wairya	2nd International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON 2023)	11 DEC 2023	**DOI: 10.1109/TEECCON59234.2023.10335835**
10.	Design and Performance Evaluation of a Multiband Microstrip Patch Antenna Array for Wireless Application	Rajanish Kumar Chaursiya, Maneesha Dwivedi and Dr. Neelam Srivastava	The 2023 International Conference on Electrical, Electronics, Communication And Computers	August 2023	DOI: 10.1109/ELEXCOM58812.2023.10370612
11.	Parametric Analysis of a Novel Dual-Output Current-Mode Filter for VHF/SHF Band Utilization	Rajani Maurya, Siddharth Srivastava, Dr. Neelam Srivastava	4th Global Conference for Advancement in Technology (GCAT), Bangalore.	October 2023	DOI: 10.1109/GCAT59970.2023.10353500
12.	Triple-Output current-mode on-chip Filter Design and Analysis for VHF-band Applications	Rajani Maurya, Siddharth Srivastava, Dr. Neelam Srivastava	14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India,	JULY 2023	10.1109/ICCCNT56998.2023.10307761
13.	Design and Performance Analysis of Microstrip Patch antenna with Optimum Parameters for S band Applications	Amit Kumar Pathak, Maneesha Dwivedi and Dr. Neelam Srivastava	The 2023 International Conference On Electrical, Electronics, Communication And Computers	August 2023	DOI: 10.1109/ELEXCOM58812.2023.10370493

14.	Design Analysis of an Energy-Efficient Low-Power Dynamic Comparator Using NMOS Based Preamplifier	Abhinav Saxena, Anurag Yadav, Subodh Wairya	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	November 2023	**DOI:** 10.1109/ICCCNT56998.2023.10307939
15.	Performance Analysis of Ternary Full Adder designs using proposed Ternary 3:1 MUX	Parikalp Gupta, Anum Khan, Subodh Wairya	2nd International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON 2023)	August 2023	DOI: 10.1109/TEECCON59234.2023.10335872
16.	Performance Evaluation of Novel Ternary Subtractor Circuits using Double Pass Transistor Logic	Parikalp Gupta, Anum Khan, Subodh Wairy	4th Global Conference for Advancement in Technology (GCAT)	19 DEC 2023	DOI: 10.1109/GCAT59970.2023.10353379
17.	Evaluating the BER Performance for M-ary QAM in AWGN, Rayleigh, Rician, and Nakagami-m Fading Channels	Amol Sharma, Dr. Ram Chandra Singh Chauhan	The 14th international conference on Computing Communication and Network technologies (ICCCNT), IIT Delhi	23 NOV 2023	**DOI:** 10.1109/ICCCNT56998.2023.10307056
18.	Reduction in Error-rate using BIOFDM Technique and Power Comparison for M-QAM System under various fading channel environments	Amol Sharma, Dr. Ram Chandra Singh Chauhan	4th Global Conference for Advancement in Technology, Bangalore (IEEE).	19 DEC 2023	DOI: 10.1109/GCAT59970.2023.10353236
19.	SAR Analysis of Human Head Tissue Exposed to 5G FR2 Frequencies	Sunaina Shakya and Rajiv Kumar Singh	4th Global Conference for Advancement in Technology (GCAT)	Dec 2023	DOI: 10.1109/GCAT59970.2023.10353314
20.	A Comparative Analysis of Specific Absorption Rate from Different Antennas Utilized in 5G Technology	Sunaina Shakya and Rajiv Kumar Singh	4th Global Conference for Advancement in Technology (GCAT)	19 DEC 2023	DOI: 10.1109/GCAT59970.2023.10353526
14	Performance Analysis of Fast & Power Efficient Dynamic Comparator Topologies	Agyenya Anand, Anurag Yadav, Subodh Wairya	2nd International Conference on Device Intelligence Computing and Communication Technologies, Graphic Era University	2024	DOI: 10.1109/DICCT61038.2024.10533168

| 15 | Design and Implementation of Microstrip Antenna array with Improved Gain for 5G communication | Rajanish Kumar Chaursiya, Maneesha Dwivedi and Dr. Neelam Srivastava | International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India | JULY 2023 | DOI: 10.1109/ICCCNT56998.2023.10307314 |

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
1.	Static Single Phase Contention Pulsed Latch for Low Voltage Operation	Pragati Mishra, Neelam Srivastava	Lecture Notes in Electrical Engineering	2 July 2023	https://doi.org/10.1007/978-981-99-0973-5
2.	Performance Analysis of Pulsed Latches for Low-Voltage Operation,	Pragati Mishra, Neelam Srivastava	Lecture Notes in Electrical Engineering	2 July 2023	https://doi.org/10.1007/978-981-99-0973-5_42
3.	Design Analysis of 3-Bit Flash ADC using Low-Offset and Low-Power Opamp	Abhinav Saxena, Anurag Yadav Subodh Wairya	10th International Conference on Signal Processing and Integrated Networks (SPIN 2023	9 May 2023	DOI : 10.1109/SPIN57001.2023.10116426
4.	Implementation of Low-Power Frequency Divider Circuit using GDI Technique	Priyanka Pandey, Amit Kumar Rajiv Kumar Singh	International Conference on Computation System and Information Technology for Sustainable Solutions	31 Jan 2023	DOI : 10.1109/CSITSS57437.2022.10026389
5.	Sub-threshold Swing Analysis for NC-TFET in Low-Power Biomedical Applications	Sheetal Singh, Subodh Wairya	IEEE Devices for Integrated Circuit (DevIC), Kalyani, India,, 5th IEEE International Conference on Devices for Integrated Circuit, 2023	April, 2023	DOI : 10.1109/DevIC57758.2023.10134969
6.	Full-Duplex Spectrum Sensing with Imperfect CSI and Mobile Nodes,	Ashish Kumar Rao, Siddharth Srivastava Arun Kumar Singh Neelam Srivastava	5th International Conference on VLSI, Communication and Signal Processing	2 July, 2023	https://doi.org/10.1007/978-981-99-0973-5_65
7.	Investigation of suitable Material for Encapsulation of Electronic Systems	Aditya Aron, Rajiv Kumar Singh	International Conference on Recent Advances in Material and	2023	https://doi.org/10.1016/j.ijheatmasstransfer.2022.123458

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8.	Design and Analysis of Low Power Frequency Divider Circuit, , , vol. 1024, , 2022.	Priyanka Pandey, Amit Kumar Rajiv Kumar Singh	4th International Conference on VLSI, Communication and Signal Processing	2022 July	DOI : https://doi.org/10.1007/978-981-99-0973-5_12
9.	Performance analysis of various fast and low power dynamic comparators, Intelligent Systems and Smart Infrastructure	Nashra Khalid, Anurag Yadav Subodh Wairya	1st International Conference on Intelligent Systems and Smart Infrastructure	15 FEB 2023	https://doi.org/10.1201/9781003357346
10.	Design and Analysis of High speed and Low Power Dynamic Comparator, Intelligent Systems and Smart Infrastructure	Kunal Kumar, Anurag Yadav Subodh Wairya	1st International Conference on Intelligent Systems and Smart Infrastructure	15 FEB 2023	https://doi.org/10.1201/9781003357346
11.	A Comparative Performance Analysis of QCA Full Adder, 1st International Conference on Intelligent Systems and Smart Infrastructure	Ayushi Kirti Singh, SubodhWairya Divya Tripathi	1st International Conference on Intelligent Systems and Smart Infrastructure	15 FEB 2023	https://doi.org/10.1201/9781003357346
12.	A Cell Optimization and Realization of XOR based Logic Design in QCA	Ayushi Kirti Singh, Subodh Wairya Divya Tripathi	International Conference on VLSI, Communication & Signal Processing	02 July 2023	https://doi.org/10.1007/978-981-99-0973-5_4
13.	Performance Analysis of Differential Dual stage delay cells of VCO	Mohd Saqib, Subodh Wairya Anurag Yadav	5th International Conference on VLSI, Communication & Signal Processing,	02 July 2023	https://link.springer.com/chapter/10.1007/978-981-99-0973-5_60
14.	Design Analysis of Ultra Low Power Charge Sharing Based High Speed Comparator Topology	Kunal Kumar, Subodh Wairya Anurag Yadav	5th International Conference on VLSI, Communication & Signal Processing	02 July 2023	https://doi.org/10.1016/j.aeue.2020.153068
15.	Design and Implementation of Microstrip Antenna array with Improved	Rajanish Kumar Chaursiya, Maneesha Dwivedi and Dr. Neelam Srivastava	The 14th International Conference on Computing, Communication and	July 2023	DOI: 10.1109/ICCCNT56998.2023.10307314

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16.	Triple-Output current-mode on-chip Filter Design and Analysis for VHF-band Applications	Rajani Maurya, Siddharth Srivastava, Dr. Neelam Srivastava	14th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT-Delhi.	July, 2023	**DOI:** 10.1109/ICCCNT56998.2023.10307761
17.	Performance Evaluation of a Compact U-Shaped Patch Antenna for C-Band Applications	Amit Kumar Pathak, Maneesha Dwivedi and Dr. Neelam Srivastava	The 14th International Conference On Computing, Communication And Networking Technologies (ICCCNT by IIT Delhi)	July 2023	**DOI:** 10.1109/ICCCNT56998.2023.10307299
18.	Design Analysis of 3-Bit Flash ADC using Low-Offset and Low-Power Opamp	Abhinav Saxena, Anurag Yadav, Subodh Wairya	10th International Conference on Signal Processing and Integrated Networks	May 2023	**DOI:** 10.1109/SPIN57001.2023.10116426
19.	Performance Evaluation of SC-FDMA in Fading Channels with PAPR, QAM, and RSSI Analysis" Wireless Personal	Amol Sharma, Dr. Ram Chandra Singh Chauhan, Jaspreet Kaur	Wireless Personal Communications. SCOPUS, Science Citation Index Expanded (SCIE).	29 JAN 2023	DOI: https://doi.org/10.21203/rs.3.rs-3852588/v1
20.	Aditya Aron, Rajiv Kumar Singh	Implementation of Various Analog Filters in EM Wave Domain,	2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering UPCON	28, DEC 2022	DOI : 10.1109/UPCON56432.2022.9986486
21.	Ashwani Kumar, Rajiv Kumar Singh	Design of RFID Reader Antenna for WLAN/ WiMAX Application	2022 IEEE 9th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering UPCON	28, DEC 2022	DOI : 10.1109/UPCON56432.2022.9986420
22.	Memristor Emulator Circuits An Emerging	Jyoti Garg, Aishita Verma, Subodh Wairya	International Conference On VLSI & Microwave and Wireless Technologies	SEP, 2022	

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23.	A Cost efficient QCA RAM cell for Nanotechnology Applications,	Divya Tripathi, Subodh Wairya	International Conference On VLSI & Microwave and Wireless Technologies MMMTU, Gorakhpur, India,2021	Sep 2022	
24.	High Performance 3-2 Compressor using Efficient XOR-XNOR in Nanotechnology,	Anum Khan, Subodh Wairya	International Conference On VLSI & Microwave and Wireless Technologies, MMMTU, Gorakhpur, India, 2021.	Sep 2022	
25.	Performance analysis of text extraction from complex degraded Image using fusion of DNN, steganography and AGSO	Digvijay Pandey, Subodh Wairya	International Conference On VLSI & Microwave and Wireless Technologies, MMMTU, Gorakhpur, India, 2021	Sep 2022	
26.	Analog and Digital Applications of 4-T Based Memristor Emulator,	Semba Walli , Jyoti Garg, Semba Walli , Jyoti Garg	International Conference On VLSI & Microwave and Wireless Technologies, MMMTU, Gorakhpur, India, 20-21 March. 2021	Sep 2022	
27.	An Ultra Efficient QCA SRAM Cell for Nanotechnology Applications,	Divya Tripathi, Subodh wairya,	4th International Conference on VLSI, Communication & Signal Processing , Springer, Singapore, , 2021.	OCT 2022	DOI:10.1007/978-981-19-2631-0_35
28.	Performance Analysis of Vedic multiplier using High Performance XOR-MUX based adder for Fast Computation	Aishita Verma, Anum Khan, Subodh Wairya	4th International Conference on VLSI, Communication & Signal Processing, Springer, Singapore, , , 2021.	OCT 2022	DOI:10.1007/978-981-19-2631-0_60
29.	Performance Estimation of Different Tunnel Field Effect Transistor Based Biosensors used in the	Shilpi Gupta, Subodh wairya,	4th International Conference on VLSI, Communication & Signal Processing, Springer, Singapore, 2021.	OCT 2022	DOI:10.1007/978-981-19-2631-0_61

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
1.	An Energy Dissipation and Cost Optimization of QCA Ripple Carry Adder	Divya Tripathi, Subodh Wairya,	IEEE 8th International Conference on Signal Processing and Integrated Networks, SPIN-2021	OCT, 2021	DOI : 10.1109/SPIN52536.2021.9566068
2.	Low-Power high performance Hybrid Scalable Full Adder for Fast Computation,	Aishita Verma, Anum Khan, Subodh Wairya	International Conference On Computational Electronics for Wireless Communication, NIT, Kurukshetra	2021	
3.	Design of Flash ADC using low offset comparator for analog signal processing application	Anurag Yadav, Nivedita Rai, Subodh Wairya,	IEEE 8th International Conference on Signal Processing and Integrated Networks, SPIN-2021, Noida	OCT 2021	DOI : 10.1109/SPIN52536.2021.9566050
4.	Performance analysis of different Tunnel Field Effect Transistors (TFET) device structures with their Challenges	Shilpi Gupta, Subodh Wairya,	IEEE 8th International Conference on Signal Processing and Integrated Networks, SPIN-2021,	OCT 2021	DOI : 10.1109/SPIN52536.2021.9566097
5.	Performance Improvement and Comparative Analysis of Memristive Emulator Networks	Semba Walli, SRP sinha, Subodh Wairya,	2nd International Conference for Emerging Technology , IEEE	June 2021	DOI : 10.1109/INCET51464.2021.9456289
6.	An Efficient QCA Vedic Multiplier for Nanotechnology applications	Divya Tripathi, Subodh Wairya,	The International Conference for Intelligent Technologies , IEEE Xplore Digital Library	4 Aug 2021	DOI : 10.1109/CONIT51480.2021.9498464
7.	A Cost-Efficient QCA XOR-XNOR Topology for	Divya Tripathi, Subodh Wairya,	2nd International Conference on Computing Communication, and	April 2021	DOI : 10.1109/ICCCIS51004.2021.9397215

S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
	Nanotechnology Applications		Intelligent Systems , IEEE, , pp. 6, 2021		
8.	A Cost-Efficient QCA XOR function based Arithmetic Logic Circuits for Nanotechnology Applications	Divya Tripathi, Subodh Wairya	4th International Conference on Innovative Computing and Communication, Springer, Singapore, , pp. 16, 2021.	Jan 2022	DOI : Proceedings of ICICC 2021, Volume 2, https://doi.org/10.1007/978-981-16-1395-1_19
9.	A Cost-Efficient Magnitude Comparator and Error Detection Circuits for Nano Communication	Divya Tripathi, Subodh Wairya,	5th International Conference on Inventive Systems and Control, Springer, Singapore,	June 2021	DOI : DOI https://doi.org/10.1007/978-981-16-1395-1_19
10.	A Cost Efficient QCA Compressor Topologies for Fast Nano Computing Applications	Divya Tripathi, Subodh Wairya,	IEEE 8th International Conference on Signal Processing and Integrated Networks, SPIN-2021,	OCT 2021	DOI : 10.1109/SPIN52536.2021.9565997
11.	An Efficient ALU Architecture Topology for Nanotechnology Applications, IEEE	Anum Khan, Subodh wairya,	8th International Conference on Signal Processing and Integrated Networks, SPIN-2021, organized by Amity University, Noida, IEEE,	OCT 2021	DOI : 10.1109/SPIN52536.2021.9566043
12.	2:1 MUX Design Using Multidinous Logic Families at 45nm Technology, 2022	Priyanka Tiwari, Amit Kumar	IEEE 3rd Global Conference for Advancement in Technology, IEEE, 2021.	Nov 2021	DOI : 10.1109/GCAT52182.2021.9587845

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publication	DOI
1.	Design of Stacked Patch Microstrip Antenna for UWB Applications	Sonmati Verma , Rajiv Kumar Singh , Neelam Srivastava	International Conference on Electrical, Electronics and Computer Engineering	27 NOV 2020	DOI : 10.1109/UPCON50219.2020.9376527
2.	"Beam-Absent Dispersion of a Disc-Loaded Circular RF Interaction Structure for a	R.K.Singh, Aishwarya Chandel, Vinay Kumar, Harshit Singh,	IEEE International Conference on Computing, Power and Communication Technologies GUCON-2020,	DOI : 10.1109/GUCON48875.2	NOV 2020

	Gyro-TWT Amplifier",		IEEE, , pp. 490-493, 2020.	020.92 31060	
3.	"Electron Bunching and Power Growth in a Gyro-TWT Amplifier: A Langrangian Approach",	R. K.Singh, Jitendra Shukla, Aishwarya Chandel, Harshit Singh,	IEEE International Conference on Computing, Power and Communication Technologies GUCON, IEEE, pp. 498-501, 2020.	DOI : 10.1109/G UCON488 75.2020.92 31068	OCT 2020
4.	"Beam-Wave Interaction in a Gyro-Travelling Wave Tube Amplifier",	R.K.Singh, Vinay Kumar, Harshit Singh, Aishwarya Chandel,	2020 IEEE International Conference on Computing, Power and Communication Technologies GUCON, IEEE, , pp. 494-497, 2020.	DOI : 10.1109/G UCON4887 5.2020.92 31096	OCT 2020
5.	"Design of Stacked Patch Microstrip Antenna for UWB Applications",	Sonmati Verma, Rajiv Kumar Singh, Neelam Srivastava,	2020 IEEE 7th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering UPCON, IEEE, , , 2020.	DOI : 10.1109/U PCON5021 9.2020.93 76527	MARCH 2021

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S.NO.	Title Of Paper	Name Of The Author/S	Name Of Conference	Month & Year Of Publicati on	DOI
1.	Polarizationdepe ndent Electromagnetic Band Gap (Pdebg) Structures With Circularly Polarized Antenna	Alka Verma , Neelam Srivastava	International Journal of Applied Engineering Research, Research India Publications, 2019,	2 NOV 2019	ISSN 0973-4562
2.	Cell Optimization and Realization of MGDI QCA based Combinational Logic Circuits for Nanotechnology Applications	Divya Tripathi, Sana and Subodh Wairya,	17th IEEE International Conference on VLSI, Communication & Signal Processing (INDICON- 2020), Netaji Subhas University of Technology, (NSIT), Delhi, 11-13 December, 2020. **Published in IEEE Xplore Digital Library**	Dec 2020	DOI: 10.1109/INDICON49873. 2020.9342097
3.	Full-Duplex Wireless Communication in	R.K.Singh, Rao,A.K., N.Srivastava,	A Survey, Advances in VLSI, Communication, and Signal Processing.	NOV 2019	https://doi.org/10.1007/ 978-981-32-9775-3_26

	Cognitive Radio Networks:		Lecture Notes in Electrical Engneering, , vol. 587, , 2020.		
4.	Assessment of Electromagnetic Radiation from Base Station Antenna	Rajiv Kumar Singh, Radhey Lal , Ekta Singh,	International Conference on Advances in Electronics, Electrical & Computational Intelligence ICAEEC-2019, SSRN, , , 2019.	APRIL 2020	DOI : https://dx.doi.org/10.2139/ ssrn.3573601
5.	Effect of rise time in high speed interconnects	Rashid Jamal, Indra Kumar Singh, Rajiv Kumar Singh, , IEEE, 2019.	2019 International Conference on Electrical, Electronics and Computer Engineering UPCON	NOV 2019	DOI : 10.1109/UPCON47278.2019 .8980186
6.	Mode Competition and Control in a Vane-Loaded RF Interaction Structure	R.K Singh,	6th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, Aligarh Muslim University, Ohio State University and National Power Training Institute., 2019	November 2019,	DOI: 10.1109/UPCON47278.2019 .8980193

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S.No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Year of Publication	ISBN/ISSN number of the proceeding	affiliating institutions was same	Name of the publisher
			Books and Chapters in edited volumes published (2019-2025)					
1.	Kirti Prakash , Mohd Javed Khan , RCS Chauhan	5G and Beyond Wireless Networks	Non orthogonal multiple access (NOMA) for 5G networks	5G and Beyond Wireless Networks	Nov 2023	ISBN : 9781003407836,	yes	CRC Press
2.	Brijesh Mishra , Rakesh Kumar Singh , Subodh Wairya, Manish Tiwari	Intelligent Systems and Smart Infrastructure Proceedings of ICISSI 2022	NA	Intelligent Systems and Smart Infrastructure Proceedings of ICISSI 2022	FEB 2023	ISBN : 9781032412870	yes	CRC Press, Taylor & Francis Group
3.	Nashra Khalid, Anurag Yadav, Subodh Wairya	Intelligent Systems and Smart Infrastructure	Performance analysis of various fast and low power dynamic comparators	Intelligent Systems and Smart Infrastructure	FEB 2023	, ISBN 978-1-032-41287-0	yes	CRC Press, Taylor & Francis Group
4.	Kunal Kumar, Anurag Yadav, Subodh Wairya	Intelligent Systems and Smart Infrastructure	Design and Analysis of High speed and Low Power Dynamic Comparator	Intelligent Systems and Smart Infrastructure	FEB 2023	, ISBN 978-1-032-41287-0	yes	CRC Press, Taylor & Francis Group
5.	yushi Kirti Singh , Subodh Wairya , Divya Tripathi	Intelligent Systems and Smart Infrastructure	A Comparative Performance Analysis of QCA Full Adder	Intelligent Systems and Smart Infrastructure	FEB 2023	ISBN 978-1-032-41287-0	yes	CRC Press, Taylor & Francis Group
6.	Saqib, M., Wairya, S., Yadav, A.	VLSI, Communication and Signal Processing. VCAS 2022	Performance Analysis of Differential Dual Stage Delay Cells of VCO	VLSI, Communication and Signal Processing. VCAS 2022	JULY 2023	ISBN : 978-981-99-0973-5,	yes	Lecture Notes in Electrical Engineering
7.	Kunal Kumar , Anurag Yadav , Subodh Wairya,	VLSI, Communication and Signal Processing. VCAS 2022	Design of Ultralow-Power and High-Speed Comparator Using Charge Sharing Technique	VLSI, Communication and Signal Processing. VCAS 2022.	JULY 2023	ISBN : 978-981-99-0973-5,	yes	Lecture Notes in Electrical Engineering
8.	Ayushi Kirti Singh , Subodh Wairya , Divya Tripathi	VLSI, Communication and Signal Processing. VCAS 2022.	Cell Optimization and Realization of XOR-Based Logic Design in QCA	VLSI, Communication and Signal Processing. VCAS 2022.	JULY 2023	ISBN : 978-981-99-0973-5,	yes	Lecture Notes in Electrical Engineering
9.	Sweta Tripathi , Anum Khan , Subodh Wairya,	Recent Trends in Electronics and Communication. Lecture Notes in Electrical Engineering,	Performance Evaluation of Master–Slave D Flip Flop Based on Charge Retention Feedback Pass Transistor Logic in Nanotechnology	Recent Trends in Electronics and Communication. Lecture Notes in Electrical Engineering,	DEC 2021	ISBN : 978-981-16-2761-3,	yes	Lecture Notes in Electrical Engineering, vol 777. pp405-424
10.	Divya Tripathi , Subodh Wairya	Advances in VLSI, Communication, and	An Ultra Efficient QCA SRAM Cell for Nanotechnology Applications	Advances in VLSI, Communication , and Signal Processing,	OCT 2022	DOI: 10.1007/978-981-19-2631-0_35	yes	Lect. Notes Electrical Eng., Vol. 911

#	Authors	Journal/Conference	Title	Conference/Proc.	Date	ISBN/DOI	Indexed	Series
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11.	Shilpi Gupta , Subodh Wairya Singapore , 2022,	Advances in VLSI,	Performance Estimation of Different Tunnel Field Effect Transistor Based Biosensors used in the Biomedical and its Future Prospective	Advances in VLSI,	OCT 2022	DOI: 10.1007/978-981-19-2631-0_35	yes	Lect. Notes Electrical Eng., Vol. 911
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