

Details of Paper Published in Journal (International / National) during 2023-2024

Research Papers in Journals (August 2023- July 2024)								
S.No	Name of the Faculty Member	Title of the Research Paper	Month & Year of publication		Name of the Journal	ISSN/ ISBN No.	DOI	Indexing
			Month	Year				
1	Prof. R.S.Gupta	Extraction of Non-Quasi-Static Model Parameters for Cylindrical Gate-Stacked Junction-less Accumulation Mode MOSFET and Its Implementation as RF Filters for Circuit Applications	August	2023	Microsystem Technologies	1432-1858		SCI
2	Prof. R. S. Gupta	Nanoscale temperature dependent quantum-effect analytical model of short-channel, junction-less, double-gate stack (SC-JL-DG) MOSFET for analog applications at higher frequencies	September	2023	Microelectronics Journal	9598324	https://doi.org/10.1016/j.mejo.2023.105952	SCI
3	Prof. R. S. Gupta	Analytical Modelling and Reliability Analysis of Charge Plasma-Assisted Mg ₂ Si/Si Heterojunction Dopingless DGTFTFET for Low-Power Switching Applications	December	2023	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad1232	SCI
4	Prof. R. S. Gupta	Analytical investigation of a triple surrounding gate germanium source metal-oxide-semiconductor field-effect transistor with step graded channel for biosensing applications.	November	2023	International Journal of Numerical Modelling	9598324	https://doi.org/10.1002/jnm.3106	SCI
5	Prof. R. S. Gupta	Modeling of Dual- Metal Junctionless Accumulation-Mode cylindrical surrounding gate MOSFET for cryogenic temperature applications	September	2023	Microelectronics Journal	9598324		SCI
6	Prof. R. S. Gupta	Ge/Si interfaced label free nanowire BIOFET for	August	2023	Microelectronics	9598324	https://doi.org/	SCI

		biomolecules detection-analytical analysis.			Journal		10.1016/j.mejo.2023.105832	
7	Prof. R. S. Gupta	Analytical modeling and doping optimization for enhanced analog performance in a Ge/Si interfaced nanowire MOSFET.	June	2023	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/acde16	SCI
8	Prof. R. S. Gupta	Potential and electric field analysis of field plated AlGaIn/GaN HEMT for high voltage applications using 2-D analytical approach.	August	2023	Microelectronics Journal			SCI
9	Prof. R. S. Gupta	Physics based numerical model of a nanoscale dielectric modulated step graded germanium source biotube FET senso	October	2023	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/acf4c9	SCI
10	Mr. Amit Saxena	Extraction of Non-Quasi-Static Model Parameters for Cylindrical Gate-Stacked Junction-less Accumulation Mode MOSFET and Its Implementation as RF Filters for Circuit Applications.	August	2023	Microsystem Technologies	9467076		SCI
11	Dr. Anubha Goel	Nanoscale temperature dependent quantum-effect analytical model of short-channel, junction-less, double-gate stack (SC-JL-DG) MOSFET for analog applications at higher frequencies	september	2023	Microelectronics Journal	9598324	https://doi.org/10.1016/j.mejo.2023.105952	SCI
12	Ms. Sumedha Gupta	Modeling of Dual- Metal Junctionless Accumulation-Mode cylindrical surrounding gate MOSFET for cryogenic temperature applications	September	2023	Microelectronics Journal	9598324	https://doi.org/10.1016/j.mejo.2023.105880	SCI
13	Dr. Rajni	Lp minimisation in sparse array beamforming using semidefinite relaxation		2024	International Journal of Electronics Letters		https://doi.org/10.1080/21681724.2023.2251766	SCI

14	Ms. Kanika Agarwal	Lp minimisation in sparse array beamforming using semidefinite relaxation		2024	International Journal of Electronics Letters		https://doi.org/10.1080/021681724.2023.2251766	SCI
15	Ms. Kanika Agarwal	Constrained complex correntropy applied to adaptive beamforming in non-Gaussian noise environment	November	2023	Signal, Image and Video Processing	Electronic ISSN: 1863-1711		
16	Ms. Preeti Goyal	Analytical Modelling and Reliability Analysis of Charge Plasma-Assisted Mg ₂ Si/Si Heterojunction Dopingless DGTFT for Low-Power Switching Applications	December	2023	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad1232	SCI
17	Mr. Ajay Kumar Gupta	A Comprehensive Pricing-Based Scheme for Charging of Electric Vehicles	September	2023	IEEE Systems Journal	Print ISSN: 1932-8184, Electronic ISSN: 1937-9234, CD: 2373-7816	DOI: 10.1109/JSYST.2023.3286902	SCI
18	Prof. R. S. Gupta	RF and linearity parameters analysis of 20 nm gate-all-around gate-stacked junction-less accumulation mode MOSFET for low power circuit applications	January	2024	Microsystem Technologies, Springer Berlin Heidelberg	9467076		SCI
19	Prof. R. S. Gupta	Design of Low Power Analog/RF Signal Processing Circuits Using 22 nm Silicon-on-Insulator Schottky Barrier Nano-Wire MOSFET	January	2024	International Journal of High Speed Electronics and Systems	ISSN (online) : 1793-6438	https://doi.org/10.1142/S0129156424500034	SCI
20	Prof. R. S. Gupta	Non-uniform doping dependent electrical parameters of dual-metal	January	2024	International Journal of	1099-1204	https://doi.org/10.100	SCI

		gate all around junctionless accumulation-mode nanowire FET			Numerical Modeling		2/jnm.3203	
21	Prof. R. S. Gupta	Modeling and Simulation Characteristics of a Highly-Sensitive Stack-Engineered Junctionless Accumulation Nanowire FET for PH3 Gas Detection	February	2024	ECS Journal of Solid State Science and Technology	2162-8777	DOI 10.1149/2162-8777/ad26a2	SCI
22	Mr. Amit Saxena	RF and linearity parameters analysis of 20 nm gate-all-around gate-stacked junction-less accumulation mode MOSFET for low power circuit applications		2024	Microsystem Technologies, Springer Berlin Heidelberg	9467076		SCI
23	Mr. Amit Saxena	Design of Low Power Analog/RF Signal Processing Circuits Using 22 nm Silicon-on-Insulator Schottky Barrier Nano-Wire MOSFET		2024	International Journal of High Speed Electronics and Systems	ISSN (online) : 1793-6438	https://doi.org/10.1142/S0129156424500034	SCI
24	Dr. Anubha Goel	Modeling and Simulation Characteristics of a Highly-Sensitive Stack-Engineered Junctionless Accumulation Nanowire FET for PH3 Gas Detection	February	2024	ECS Journal of Solid State Science and Technology	2162-8777	DOI 10.1149/2162-8777/ad26a2	SCI
25	Dr. Anubha Goel	Novel Hybrid-CMOS Inverter utilizing Phase Transition Material for enhancing Digital Logic Performance at lower operating Voltages		2024	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad274a	SCI
26	Ms. Sumedha Gupta	Non-uniform doping dependent electrical parameters of dual-metal gate all around junctionless accumulation-mode nanowire FET	January	2024	International Journal of Numerical Modeling	1099-1204	https://doi.org/10.1002/jnm.3203	SCI
27	Ms. Neeraj	Modeling and Simulation Characteristics of a Highly-Sensitive Stack-Engineered	February	2024	ECS Journal of Solid	2162-8777	DOI 10.1149/2162-	SCI

		Junctionless Accumulation Nanowire FET for PH ₃ Gas Detection			State Science and Technology		8777/ad26a2	
28	Ms. Preeti Goyal	A Mg ₂ Si hetero junction based dielectric modulated dopingless TFET biosensor for label free detection		2024	material science and engineering	09215093	https://doi.org/10.1016/j.mseb.2024.117356	Scopus
29	Ms. Shalu Garg	Dielectric Pocket Engineered, Gate Induced Drain Leakages (GIDL) and Analog Performance Analysis of Dual Metal Nanowire Ferroelectric MOSFET (DPE-DM-NW-Fe FET) as an Inverter	April	2024	Microsystem Technologies	9467076	DOI 10.1088/1402-4896/ad39b9	SCI
30	Ms. Shalu Garg	Accurate 2-D Analytical Model for Cylindrical Gate-Junctionless Ferroelectric Nanowire (CG-JFe- FET) MOSFET with Scaled Channel Length	April	2024	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad39b9	SCI
31	Prof. R. S. Gupta	Accurate 2-D Analytical Model for Cylindrical Gate-Junctionless Ferroelectric Nanowire (CG-JFe- FET) MOSFET with Scaled Channel Length	April	2024	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad39b9	SCI
32	Prof. R. S. Gupta	Dielectric Pocket Engineered, Gate Induced Drain Leakages (GIDL) and Analog Performance Analysis of Dual Metal Nanowire Ferroelectric MOSFET (DPE-DM-NW-Fe FET) as an Inverter	April	2024	Microsystem Technologies	9467076	DOI 10.1088/1402-4896/ad39b9	SCI
33	Prof. R. S. Gupta	A Mg ₂ Si hetero junction based dielectric modulated dopingless TFET biosensor for label free detection		2024	material science and engineering	09215093	https://doi.org/10.1016/j.mseb.2024.117356	Scopus
34	Dr. Anubha Goel	Accurate 2-D Analytical Model for Cylindrical Gate-Junctionless Ferroelectric Nanowire (CG-JFe- FET) MOSFET with Scaled	April	2024	Physica Scripta	1402-4896	DOI 10.1088/1402-4896/ad39b9	SCI

		Channel Length						
35	Dr. Anubha Goel	Dielectric Pocket Engineered, Gate Induced Drain Leakages (GIDL) and Analog Performance Analysis of Dual Metal Nanowire Ferroelectric MOSFET (DPE-DM-NW-Fe FET) as an Inverter	April	2024	Microsystem Technologies	9467076	DOI 10.1088/1402-4896/ad39b9	SCI
36	Ms. Neeraj	Impact of Interface Trap Charges on Silicon Carbide (4H-SiC) Based Gate – Stack, Dual Metal, Surrounding Gate, FET (4H-SiC- GSDM-SGFET) for Analog and Noise Performance Analysis for 5G/LTE Applications	July	2024	ECS Journal of Solid State Science and Technology	2162-8777	DOI 10.1149/2162-8777/ad26a2	SCI
37	Dr. Anubha Goel	Impact of Interface Trap Charges on Silicon Carbide (4H-SiC) Based Gate – Stack, Dual Metal, Surrounding Gate, FET (4H-SiC- GSDM-SGFET) for Analog and Noise Performance Analysis for 5G/LTE Applications	July	2024	ECS Journal of Solid State Science and Technology	2162-8777	DOI 10.1149/2162-8777/ad26a2	SCI
38	Prof. R. S. Gupta	Impact of Interface Trap Charges on Silicon Carbide (4H-SiC) Based Gate – Stack, Dual Metal, Surrounding Gate, FET (4H-SiC- GSDM-SGFET) for Analog and Noise Performance Analysis for 5G/LTE Applications	July	2024	ECS Journal of Solid State Science and Technology	2162-8777	DOI 10.1149/2162-8777/ad26a2	SCI
39	Mr. Ajay Kumar Gupta	A Non-Cooperative Pricing Strategy for UAV-Enabled Charging of Wireless Sensor Network		2024	IEEE Transaction on Green Communication and Networking		10.1109/TGCN.2024.3434603	SCI
40	Mr. Ajay Kumar Gupta	St-Hot: A Prospect of Price Equilibrium in a Multi-player Game for Electric Vehicle Charging Application		2024			10.1109/ACCSS.2024.3435367	SCI
41	Mr.	Design and mode matching	February	2024	IETE	0974-	https://	SCI

	Sudarshan	analysis of substrate integrated waveguide and filter	y		Journal of research	780X/0377-2063	doi.org/10.1080/03772063.2023.2171917	
42	Dr. Nitin Sharma	Real-time Vital Signs Monitoring and Data Management Using a Low-Cost IoT-based Health Monitoring System		2024			https://doi.org/10.1177/09720634241246926	SCI
43	Dr. Umesh Chandra Singh	A study on Dual-Sense Broadband Circularly Polarized Monopole Antenna for UWB Applicatons		2024			https://doi.org/10.1504/IJWMC.2024.139622	SCI
44	Ms. Sapna Gupta	Comparative Analysis OF MERN, MEAN AND MEVN STACKS in Web Development	Feb	2024	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN-2582-3930	DOI: 10.55041/IJSREM28539	
45	Ms. Sapna Gupta	Comprehensive Study on a Farmer Tool Renting Website to Enhance Farmer Potential	Feb	2024	International Journal of Research Publication and Reviews	ISSN 2582-7421		
46	Ms. Sapna Gupta	Trade Swift- Algorithmic Trading	Feb	2024	International Journal of Research Publication and Reviews	ISSN 2582-7421		
47	Ms. Sapna Gupta	NutriGenius: AI Powered Wellness Hub	Feb	2024	International Journal for Multidisci	E-ISSN: 2582-2160	10.36948/ijfmr.2024.v06i02.15469	

					plinary Research (IJFMR)			
48	Ms. Sapna Gupta	Decentralized Crowdfunding: Harnessing Blockchain for Transparent Fundraising	May	2024	International Research Journal of Modernization in Engineering Technology and Science	e-ISSN-2582-5208	https://www.doi.org/10.56726/IRJMET56578	
49	Ms. Sapna Gupta	Design and Implementation of a Virtual World Populated with Self Driving Cars	May	2024	International Journal of Research Publication and Reviews	ISSN 2582-7421		
50	Ms. Sapna Gupta	Building a Deep Computer Vision model to classify between the characters in the popular TV series	Mar	2024	International Journal of Research Publication and Reviews	ISSN 2582-7421		
51	Ms. Sapna Gupta	Career Quick Application	Apr	2024	International Journal of Engineering Applied Sciences and Technology	ISSN No. 2455-2145		
52	Ms. Sapna Gupta	Adversarial Attacks and Defense Strategies on Image Classification	May	2024	International Research Journal of Modernization in Engineering Technology and Science	e-ISSN-2582-5208	DOI : https://www.doi.org/10.56726/IRJMET55114	
53	Ms. Sapna	Automatic Detection of AI-	May	2024	Internatio	ISSN		

	Gupta	Generated Text Model			nal Journal of Research Publicatio n and Reviews	2582- 7421		
54	Ms. Sapna Gupta	Recognition of Facial Expressions using Combined Geometric Features	May	2024	Internatio nal Research Journal of Moderniz ation in Engineeri ng Technolo gy and Science	e-ISSN: 2582- 5208	DOI : https:// www.d oi.org/1 0.5672 6/IRJM ETS57 291	
55	Ms. Sapna Gupta	A Comparative Analysis of Machine Learning Models for Heart Disease Prediction	June	2024	Internatio nal Journal of Research Publicatio n and Reviews	ISSN 2582- 7421		
56	Ms. Sapna Gupta	Smart Sensing: HVAC Occupancy Detection	June	2024	Internatio nal Journal of Research Publicatio n and Reviews	ISSN 2582- 7421		

Details of Paper Published in Conference (International / National) during 2023-24

Research Papers in Conference (August 2023- July 2024)								
S.No	Name of the Faculty Member	Title of the Research Paper	Month & Year of publication		Name of the Conference	ISSN/ ISBN No.	DOI	Indexing
			Month	Year				
1	Prof. Neelam Sharma	A Detailed Study for Power System Analysis in Transmission Substation (220 /66kV) using ETAP.	March	2024	3rd International conference on Renewable Power ICRP2024			

2	Prof. R. S. Gupta	Characterization of Radiation-Dependent Dual Channel AlGaIn/GaN MOS-HEMT Based Dosimeter.		2023	9th ICSC	978-1-6654-0782-3	<u>10.1109/ICSC60394.2023.10441586</u>	
3	Mr. Sudarshan	Design of a Half-Mode SIW Band-Pass Filter and Leaky Wave Antenna for X-Band Application		2023	2023 3rd International Conference on Advancement in Electronics & Communication Engineering (AECE)	979-8-3503-3072-4	10.1109/AEC59614.2023.10428244	
4	Ms. Sapna Gupta	Underwater Image Enhancement and Trash Detection Using Deep Learning	June	2024	IEEE Students Conference on Engineering and Systems (SCES)	979-8-3503-7471-1		
5	Ms. Sapna Gupta	Physique-Driven Human Activity Recognition with Ensemble Learning	June	2024	IEEE Students Conference on Engineering and Systems (SCES)	979-8-3503-7471-1		