

Details of Paper Published in Journal (International / National) during 2024-25

Research Papers in Journals (August 2024-2025)								
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. Sunil Kumar	Impact of Miniaturization on the Self- Heating Effect in MOSFET Devices	April	2025	JSAT	2321-9653	https://doi.org/10.22214/ijraset.2025.68798	
2	Prof. Sunil Kumar	Sustainable Green IoT: Energy Harvesting for Smart Cities	April	2025	IJSREM	2582-3930		
3	Prof. Sunil Kumar	Radar Technology with MIMO-OFDM and Digital Beamforming	April	2025	IJSREM	2582-3930		
4	Prof. Sunil Kumar	Radar vs. Stealth: A Critical Analysis of Evasion and Detection Technologies in Contemporary Warfare	April	2025	IJRASET	2321-9653		
5	Prof. Sunil Kumar	AI-Powered smart building evacuation system using IOT	April	2025	IRJMES	2582-5208	https://www.doi.org/10.56726/IRJMES74145	
6	Prof. Sunil Kumar	Remote Sensing and GIS	April	2025	IJIRT	2349-6002		
7	Prof. Sunil Kumar	Breaking Bottlenecks: CPU optimization through architectural and neuromorphic techniques	April	2025	WJARR	2581-9615	10.30574/wjarr	
8	Prof. Neelam Sharma	Breaking Bottlenecks: CPU optimization through architectural and neuromorphic techniques	April	2025	WJARR	2581-9615	10.30574/wjarr	
9	Prof. R.S. Gupta	Performance investigation of neoteric Pt/Pd Junctionless gas tube FET(JL-GT-FET) as a Hydrogen(H ₂) gas sensor for industrial applications-analytical modelExtraction of Non-Quasi-Static Model	December & 2024	2024	Micro and Nanostructures Journal (Elsevier)	2773-0123	/https://doi.org/10.1016/j.micrna.2024.208050	SCI

		Parameters for Cylindrical Gate-Stacked Junction-less Accumulation Mode MOSFET and Its Implementation as RF Filters for Circuit Applications						
10	Prof. R. S. Gupta	Analytical modeling of cylindrical Silicon-on-Insulator Schottky Barrier MOSFET and impact of insulator pillar radius on analog/RF and linearity parameters for low power circuit application	February	2025	Microelectronics Journal		https://doi.org/10.1016/j.mejo.2024.106505G	SCI et rights and content
11	Prof. M L Sharma	Privacy, Data Rights, and Cybersecurity	March	2025	IJSAT	2229-7677		
12	Prof. M L Sharma	Impact of Miniaturization on the Self- Heating Effect in MOSFET Devices	April	2025	JSAT	2321-9653	https://doi.org/10.22214/ijraset.2025.68798	
13	Prof. M L Sharma	Sustainable Green IoT: Energy Harvesting for Smart Cities	April	2025	IJSREM	2582-3930		
14	Prof. M L Sharma	Radar Technology with MIMO-OFDM and Digital Beamforming	April	2025	IJSREM	2582-3930		
15	Prof. M L Sharma	Radar vs. Stealth: A Critical Analysis of Evasion and Detection Technologies in Contemporary Warfare	April	2025	IJRASET	2321-9653		
16	Prof. M L Sharma	AI-Powered smart building evacuation system using IOT	April	2025	IRJMET S	2582-5208	https://www.doi.org/10.56726/IRJMET/74145	
17	Prof. M L Sharma	Remote Sensing and GIS	April	2025	IJIRT	2349-6002		
18	Prof. M L Sharma	Breaking Bottlenecks: CPU optimization through architectural and neuromorphic techniques	April	2025	WJARR	2581-9615	10.30574/wjarr	
19	Mr. Ajay Kumar Garg	Impact of Miniaturization on the Self- Heating Effect in MOSFET Devices	April	2025	JSAT	2321-9653		
20	Mr. Ajay	Sustainable Green IoT:	April	2025	IJSREM	2582-		

	Kumar Garg	Energy Harvesting for Smart Cities				3930		
21	Mr. Ajay Kumar Garg	Remote Sensing and GIS	April	2025	IJIRT	2349-6002		
22	Dr. Amit Saxena	Analytical modeling of cylindrical Silicon-on-Insulator Schottky Barrier MOSFET and impact of insulator pillar radius on analog/RF and linearity parameters for low power circuit application	February	2025	Microelectronics Journal		https://doi.org/10.1016/j.mejo.2024.106505	SCI et rights and content
23	Dr. Anubha Goel	Performance investigation of neoteric Pt/Pd Junctionless gas tube FET(JL-GT-FET) as a Hydrogen(H ₂) gas sensor for industrial applications-analytical modelExtraction of Non-Quasi-Static Model Parameters for Cylindrical Gate-Stacked Junction-less Accumulation Mode MOSFET and Its Implementation as RF Filters for Circuit Applications	December & 2024	2024	Micro and Nanostructures Journal (Elsevier)	2773-0123	https://doi.org/10.1016/j.mejo.2023.105952	SCI
24	Ms. Sapna Gupta	Comparative Analysis of Smart Home Security Solutions	August	2024	International Research Journal of Modernization in Engineering Technology and Science (IJRMETS)	2582-5208	https://www.doi.org/10.56726/IJRMETS61067	
25	Ms. Sapna Gupta	Fraud Detection in UPI Transactions	Mar-Apr	2025	International Journal for Multidisciplinary	2582-2160	https://doi.org/10.36948/ijfmr.2025.v07i02.39194	

					Research (IJFMR)		
26.	Dr. Anubha Goel	Analyzing the Dual Metal Junctionless Nanotube Field-Effect Transistors for High Temperature Performances	April	2025	IRJMET S	2582-5208	https://www.doi.org/10.56726/IRJMET574745

Details of Paper Published in Conference (International / National) during 2024-25

Research Papers in Conference (August 2024-2025)							
S.No	Name of the Faculty Member	Title of the Research Paper	Month & Year of publication		Name of the Journal	ISSN/ ISBN No.	Indexing
			Month	Year			
1	Prof. R. S. Gupta	Analog and High Frequency Analysis of Dielectric Pocket Engineered (DPE) 4H-SiC Based Dual Metal(DM), Gate-Stack (GS), ,Surrounding Gate, FET(DPE-4H-SiC-GSDM-SGFET) for GIDL Reduction	November	2024	3rd IEEE International Electron Devices Kolkata Conference (EDKCON 2024)	979-8-3503-7464-3	
2	Prof. R. S. Gupta	Temperature Dependence on Various Electrical Characteristics for Silicon Carbide (4H-SiC) Based Gate – Stack (GS) Dual Metal (DM) Nanowire (NW) FET	December	2024	21st IEEE India Council International Conference; Indicon-2024	979-8-3503-9128-2	
3	Dr. Anubha Goel	Analog and High Frequency Analysis of Dielectric Pocket Engineered (DPE) 4H-SiC Based Dual Metal(DM), Gate-Stack (GS), ,Surrounding Gate, FET(DPE-4H-SiC-GSDM-SGFET) for GIDL Reduction	November	2024	3rd IEEE International Electron Devices Kolkata Conference (EDKCON 2024)	979-8-3503-7464-3	
4	Dr. Anubha Goel	Temperature Induced Transient Analysis of Dual-Metal, Nano-Wire, FET	December	2024	21st IEEE India Council	979-8-3503-9128-2	

		based Inverter			International Conference; Indicon-2024		
5	Dr. Anubha Goel	Temperature Dependence on Various Electrical Characteristics for Silicon Carbide (4H-SiC) Based Gate – Stack (GS) Dual Metal (DM) Nanowire (NW) FET	December	2024	21st IEEE India Council International Conference; Indicon-2024	979-8-3503-9128-2	
6	Ms. Neeraj	Temperature Dependence on Various Electrical Characteristics for Silicon Carbide (4H-SiC) Based Gate – Stack (GS) Dual Metal (DM) Nanowire (NW) FET	December	2024	21st IEEE India Council International Conference; Indicon-2024	979-8-3503-9128-2	
7	Ms. Neeraj	Analog and High Frequency Analysis of Dielectric Pocket Engineered (DPE) 4H-SiC Based Dual Metal(DM), Gate-Stack (GS), Surrounding Gate, FET(DPE-4H-SiC-GSDM-SGFET) for GIDL Reduction	November	2024	3rd IEEE International Electron Devices Kolkata Conference (EDKCON 2024)	979-8-3503-7464-3	
8	Ms. Shalu Garg	High-K, Gate-Stack Engineered, Junctionless, Nanowire Ferroelectric Field Effect Transistor (J-NW-Fe-FET) with various catalytic metals for PH ₃ Sensing Applications	March	2025	DeVIC 2025	979-8-3503-4726-5	
9	Dr. Anubha Goel	High-K, Gate-Stack Engineered, Junctionless, Nanowire Ferroelectric Field Effect Transistor (J-NW-Fe-FET) with various catalytic metals for PH ₃ Sensing Applications	March	2025	DeVIC 2025	979-8-3503-4726-5	
10	Prof. R. S. Gupta	High-K, Gate-Stack Engineered, Junctionless, Nanowire Ferroelectric Field Effect Transistor (J-NW-Fe-FET) with various catalytic metals for PH ₃	March	2025	DeVIC 2025	979-8-3503-4726-5	

		Sensing Applications					
11	Ms. Shalu Garg	Silicon Carbide based Dielectric Modulated Triple Metal Gate All Around MOSFET (TMGAA) for Enhanced Electrical characteristics and Analog performance	March	2025	DeVIC 2025	979-8-3503-4726-5	
12	Ms Neeraj	Silicon Carbide based Dielectric Modulated Triple Metal Gate All Around MOSFET (TMGAA) for Enhanced Electrical characteristics and Analog performance	March	2025	DeVIC 2025	979-8-3503-4726-5	
13	Dr. Ajay Kumar Gupta	Microcontroller-Driven Voice-Based Smart Wheelchair Navigation with Neural Networks	November	2024	15th International Conference on Computing Communication and Networking Technologies (ICCCNT)	ISBN:979-8-3503-7027-0	
14	Ms. Kanika Aggarwal	Constrained Normalised Maximum Complex Correntropy Criterion for Adaptive Beamforming	December	2024	1st international Conference on Data, Computation and Communication (ICDCC 2024)		
15	Mr. Nitish	Implementation of High-K Gate Dielectric in Cylindrical SOI Schottky Barrier MOSFET for Enhanced ION/IOFF Ratio	December	2024	3rd IEEE International Electron Devices Kolkata Conference (EDKCON 2024)	979-8-3503-7464-3	