

Best Posters		
Track	Title	Author
Wide Bandgap Semiconductors	Investigation on Metal-Semiconductor Interface of Au/ β -Ga ₂ O ₃ Schottky Barrier Diodes on Si(100)	Manoj Yadav, Satinder Sharma, Ankush Bag
Photovoltaics	Rear Contact Dependent Performance Enhancement of PEDOT:PSS/n-Si Solar Cell	Anil Kumar, Shaurya Arya, Nithin Chatterji, Aldrin Antony, and Pradeep R. Nair
Photonics	Formation of self-organized InP nanopillars by ion bombardment and their applications for photovoltaics	Ajith Padyana Ravishankar, Marvin A.J. Van Tilberg, Dennis Visser, Srinivasan Anand
Emerging Memory and Logic	Impact of N ₂ implant on Phosphorus diffusion for shallow n+/p Ge junctions	Sachin Dev, Nilay Pradhan, Naushad Variam, Saurabh Lodha
2D Materials	Novel optical effects from MoS ₂ In plasmonic sandwich Geometry	Preeti Deshpande, Ambarish Ghosh
Flexible and Printed Electronics	Fabrication and transfer of copper hydroxide nanowires for polymeric superhydrophobic channel	Sanjay Kumar Srinivasan, Khuushi, and Chandantaru Dey Modak, Arvind Kumar, Abinash Tripathy, Prosenjit Sen
MEMS and NEMS	MEMS cantilever-based Chemo sensor for Plant Disease detection using Volatile Organic Compounds	Akanksha Singh, Rajendra M Patrikar
	Optimizing strain mediated magnetoelectric coupling in NiMnIn/AlN layered heterostructure	Shuvam Pawar, Anuj Kumar, and Davinder Kaur
Modelling and Simulations	TCAD Simulation Based Study of Effect of Gate Voltage and Barrier Layer Thickness on Off-state Breakdown Voltage of AlGaIn/GaN HEMTs	Soumen Deb, Amitava DasGupta and Nandita DasGupta
RF and THz	Modelling and Optimization of Double barrier AlGaAs/GaAs/AlGaAs Resonant Tunneling Diode for THz applications	Monika Kumari, Manodipan Sahoo, and Jitendra Kumar
Reliability	Extraction on RTN Time Constants and Amplitude in SiGe Channel P- FETs	Chinnamuttevi Pavan, Deleep Nair, Vivek Oza, Anjan Chakravorty

Best Manuscripts		
Track	Title	Author
2D Materials	Low EOT MoS ₂ FET for Efficient Photodetection and Gas Sensing	Kartikey Thakar, Abin Varghese, Sushovan Dhara, Sayantan Ghosh, and Saurabh Lodha
Emerging Memory and Logic	Interlayer Engineering in GeSn Gate Stacks for Advanced CMOS	Shraddha Kothari, Jaswant S. Rathore, Krista R. Khiangte, Suddhasatta Mahapatra and Saurabh Lodha
MEMS and NEMS	Experimental Investigation of Dynamic Characteristics of Metal Coated Buckled Micro-Beams with Electrothermal Modulation of Residual Stress	Amruta Ranjan Behera, Habibuddin Shaik, G Rao, Rudra Pratap

Flexible and Printed Electronics	An Analytical Approach to Model the Effects of Diffusion in Space-Charge-Limited Current in Organic Semiconductor Films	S. M. H. Rizvi and B. Mazhari
Modelling and Simulations	A Simple Charge and Capacitance Compact Model for Asymmetric III-V DGFETs Using CCDA	Mohit D. Ganeriwala, Sarath Chandran G M and Nihar Ranjan Mohapatra
Wide Bandgap Semiconductors	Investigation of Trap Induced Gate Lag Phenomenon in AlGaIn/GaN High Electron Mobility Transistors	Krishanu De and Gourab Dutta

Best Papers		
Track	Title	Author
Emerging Memory and Logic	Interlayer Engineering in GeSn Gate Stacks for Advanced CMOS	Shraddha Kothari, Jaswant S. Rathore, Krista R. Khiangte, Suddhasatta Mahapatra and Saurabh Lodha
Wide Bandgap Semiconductors	Investigation of Trap Induced Gate Lag Phenomenon in AlGaIn/GaN High Electron Mobility Transistors	Krishanu De and Gourab Dutta
Wide Bandgap Semiconductors	Normally Off AlGaIn/GaN FinFET devices on Si substrate	Rohith Soman, Srinivasan Raghavan, Navakanta Bhat

Best Presentations		
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2D Materials	Majorana states in one-dimensional sidewall modes of a three dimensional topological insulator	Abhishek Banerjee (Indian Institute of Science, Bangalore)
Emerging Memory and Logic	Interlayer Engineering in GeSn Gate Stacks for Advanced CMOS	Shraddha Kothari (Indian Institute of Technology Bombay)
MEMS and NEMS	An Efficient Surface Functionalized Silicon Nanoporous Membrane as a Platform for Dialysis	Ananya Ghosh (Indian Institute of Technology Madras)
Flexible and Printed Electronics	An Analytical Approach to Model the Effects of Diffusion in Space-Charge-Limited Current in Organic Semiconductor Films	Syed Rizvi (Indian Institute of Technology Kanpur)
	Controlling the Morphology and Conductivity of Thiophene Nanofibers using Electrospinning for Flexible devices	Sweta Shekhar (Indian Institute of Science, Bangalore)
Modelling and Simulations	Compact Modeling of Drain Current in Double Gate Negative Capacitance MFIS Transistor	Amol Gaidhane (Indian Institute of Technology Kanpur)
	Surface kinetics modeling: A predictive approach to growth of high crystalline quality AlN epilayers	Shaswat (Indian Institute of Science, Bangalore)

Wide Bandgap Semiconductors	Improvement in Self-Powered GaN-based Symmetric Metal-Semiconductor-Metal Ultraviolet Photodetectors by Using Phenol-Functionalized Porphyrin Organic Molecules	Manjari Garg (Indian Institute of Technology Delhi)
Photovoltaics	Control of Conductivity in Manganese Vanadium Oxide	Pramod Ravindra (Indian Institute of Science, Bangalore)
	Enhanced broad band photoresponse of horizontal array of Silicon microstructures lithographically fabricated on Silicon On Insulator wafers	Vishal Aggarwal (S. N. Bose National Centre for Basic Sciences)
Photonics	Increasing the efficiency of a fixed-wavelength cascaded Raman resonator for a non-resonant pump by using a reflector	Roopa Prakash (Indian Institute of Science, Bangalore)
	Silicon Nitride assisted SU8 Grating for Polymer Waveguide Coupling	Siddharth Nambiar, Abhai Kumar, Rakshitha Kallega, Praveen Ranganath, Shankaer Selvaraja