

Time	Day 1 - May 20, 2022									
9:30 - 10:00 AM	Commencement of Virtual Conference and Entry of Delegates to the Conference. Exchange of Pleasantries									
10:00 - 10:15 AM	Inauguration									
10:15 - 11:15 AM	Keynote Address by Dr. Pradeep K. Rohatgi - University of Wisconsin-Milwaukee, USA. Topic - Progress in Metal Matrix Composites and Future Directions									
11:15 AM - 11:45 AM	Invited talk by Dr. Ashwini K Aggarwal - Director-Government Affairs, Applied Materials Topic - India's Semiconductor Mission - Landscape and Technology Enablers									
11:45 AM - 11:50 AM	Vote of Thanks									
11:50 - 12:10	Short Break									
Paper Presentations in Parallel Tracks										
12:10 - 1:45 PM	Track 1 Chairs: Prof. Satyabrata Jit and Dr. Pankaj Kumar Coordinator: Dr. Rahul Pandey (+91-8527503843)				Track 2 Chairs: Prof. Angsuman Sarkar and Dr. Partha Khanra Coordinator: Mr. Sagar Juneja (+91-9625441043)					
	12:10 - 12:30 PM	Invited talk by Prof. Satyabrata Jit, Department of Electronics Engineering Indian Institute of Technology, BHU, Varanasi				12:10 - 12:30 PM	Invited talk by Prof. Angsuman Sarkar Electronics & Communication Engg. Department, Kalyani Govt. Engg. College			
	Time	Paper ID	Title	Authors	Time	Paper ID	Title	Authors		
	12:30 - 12:45 PM	7	Customary of CPW configurations in Silicon-RF Technology targeting monolithic integration for GHz to THz frequency bands	Dr Balaka Biswas: Ayan Karmakar	12:30 - 12:45 PM	113	Development of Standard and High strength concretes using Sustainable & Recycled materials	APOORVA M: Narendra Kumar Boppana		
	12:45 - 1:00 PM	8	Numerical Simulations of 26.11% Efficient Planar CH3NH3PbI3 Perovskite n-i-p Solar Cell	Aditi Thakur: Dhawan Singh: Satinderjit Kaur Gill	12:45 - 1:00 PM	114	Impact of Construction & Demolition waste and slag sand on the properties of High strength self-compacting concrete	Sai Krishna Rao: Narendra Kumar Boppana		
	1:00 - 1:15 PM	22	Data path system design using 32nm FinFET Technology for Low Power Applications	Ajay Kumar Dharmireddy: VAMSI KRISHNA ADDEPALLI: Sreenivasa Rao Ijjada	1:00 - 1:15 PM	71	Macrocytic scaffold: A boon in advancement of sensor technology- Review	Pooja Sethi: Purni Mishra: Nadeem Sharma: Jyoti Sharma		
	1:15 - 1:30 PM	25	Parametric Evaluation of Carbon Nano-tube based Piezoresistive Pressure Sensor	Rekha Devi: Dr Sandeep singh Gill: Balwinder Singh	1:15 - 1:30 PM	80	Rogue Waves Generation By Using Higher Order Rational solutions Of Discrete Nonlinear Schro dinger Equation	Shivani Malhotra		
	1:30 - 1:45 PM	75	Study of P-I-N structure based modified Tunnel FET for Use in Low VLSI Circuits	SABITABRATA BHATTACHARYA: Suman Lata Tripathi	1:30 - 1:45 PM	128	DC Microgrid-A Short Review on Control Strategies	Minakshi Khushoo: Ashish Sharma: Gagandeep Kaur		
1:45 - 2:15 PM	Lunch Break									
2:15 - 2:45 PM	Invited Talk by Dr. Hiranmay Saha, Visiting Professor, IEST Shibpur TOPIC-Future Trends in Indian PV Scenario with the Advent of New Technologies									
Paper Presentations in Parallel Tracks Continue										
2:45 - 4:20 PM	Track 1 Chairs: Dr. Govind Gupta and Dr. Manish Sharma Coordinator: Dr. Rahul Pandey (+91-8527503843)				Track 2 Chairs: Dr. Arpan Deyasi and Dr. Jyotsna Kaushal Coordinator: Dr. Jaya Madan (+91-9210908163)					
	2:45 - 3:05 PM	Invited talk by Dr. Govind Gupta, FRSC (UK) Senior Principal Scientist & Professor, CSIR-National Physical Laboratory, New Delhi				2:45 - 3:05 PM	Invited talk by Dr. Arpan Deyasi RCC Institute of Information Technology, West Bengal, India			
	Time	Paper ID	Title	Authors	Time	Paper ID	Title	Authors		
	3:05 - 3:20 PM	30	Optimization Based on Computational Analysis of Lead-Free Inverted Planar Photo-Voltaic Device Structure Using Halide Based Double Perovskite Material	Sindhu S Nair: Dr. Lucky Krishna: Atul Thakur: Preeti Thakur: Trukhanov Alex	3:05 - 3:20 PM	35	A Comprehensive Overview of Metal Chalcogenides for Rechargeable Batteries	Lakshmi KP: Pruthvija B		
	3:20 - 3:35 PM	120	Double Lead-Free Perovskite Solar Cell for 19.9% Conversion Efficiency: A SCAPS-1D based Simulation Study	Tanishq Dureja: Anirudh Garg: Sirjan Bhalla: Divya Bhutani: Arrik Khanna	3:20 - 3:35 PM	94	A Critical Review on Sustainable way of Power Generation from Microbial Fuel Cell Technology	Priiti Panwar: Pooja Mahajan		
	3:35 - 3:50 PM	136	Demonstration of Normally-OFF Recessed MIS-Gate Technique on AlGaIn/GaN HEMT for Improved Power Dissipation.	Yash Walla: Pawan Verma	3:35 - 3:50 PM	96	Perspective and Future Scope of Nanotechnology in Modification of Microbial Fuel Cell	Pooja Mahajan: Priiti Panwar		
	3:50 - 4:05 PM	72	Design of All-optical XOR/NOR gate at 200 Gb/s with Mach-Zehnder Interferometer and Delayed Interferometer Schemes	Dipti Bansal: Lokesh	3:50 - 4:05 PM	74	Design & Development of Flying Capacitor Multilevel Inverter with Impact of Ultra capacitor and battery	AMARJEET S PANDEY		
4:05 - 4:20 PM	86	Design and Simulation of Optical Logic gates at Ultra high speed of 200 Gb/s employing Single SOA	Dipti Bansal: Lokesh	4:05 - 4:20 PM	79	Performance Evaluation of Metal-Air Batteries for Sustainable Agricultural Equipment	Nithish C: Divya Zindani: Gurumukh Das: Gurddeep Singh			

Time		Day 2 - May 21, 2022																			
9:30 - 10:00 AM		Commencement of Virtual Conference and Entry of Delegates to the Conference																			
10:00 - 10:30 AM		Expert Talk by Mr. Hitesh Garg - General Manager (AMSIP) and Site Head, NXP Semiconductors																			
10:30 AM - 11:00 AM		Invited Talk by Mr. P Rajagopalan - IP Manager, Marvell Technology, Singapore Topic - Automotive IP - Design Considerations and Recent Trends																			
11:00 - 11:15 AM		Short Break																			
Paper Presentations in Parallel Tracks																					
Track 3 Chairs: Dr. Sudhanshu Singh and Dr. Anoop Kumar Singh Coordinator: Dr. Rahul Pandey (+91-8527503843)																					
Track 4 Chairs: Prof. R.S. Gupta and Dr. Shivani Malhotra Coordinator: Dr. Jaya Madan (+91-9210908163)																					
Track 5 Chairs: Prof. Rajesh Khanna and Dr. Vijay Kumar Jadon Coordinator: Mr. Sagar Juneja (+91-9625441043)																					
11:15 - 11:35 AM		Invited talk by Dr. Sudhanshu Singh (PID 93), Department of Electronics & Communication Engineering Amity University Rajasthan, Jaipur				11:15 - 11:35 AM				Invited talk by Prof. R.S. Gupta (PID 103), Department of Electronics and Communication Maharaja Agrasen Institute of Technology, Rohini, Delhi				11:15 - 11:35 AM				Invited talk by Prof. Rajesh Khanna, Electronics and Communication Engineering, Thapar Institute of Engineering and Technology, Punjab			
11:15 - 12:50 PM		11:15 - 11:35 AM				11:15 - 11:35 AM				11:15 - 11:35 AM				11:15 - 11:35 AM							
Time	Paper ID	Title	Authors		Time	Paper ID	Title	Authors		Time	Paper ID	Title	Authors								
11:35 - 11:50 AM	10	Achieving the Sustainable Development Goals in Agriculture using Nanofertilizer in Cereal Based System	Gulshan Dhillon: Mansi Chitkara; Anurag Tewari; Pranav Kumar; Aashish Kumar		11:35 - 11:50 AM	64	Use of Viscoelastic Material and Design Parameters Optimization for Optimum Reduction of Vibration Response of Primary System	Ajay Kumar Verma; Parveen Saini		11:35 - 11:50 AM	73	MOL assisted face milling of EN-31: Tool wear Optimization and its correlation with cutting temperature	Vijay K Sharma; Talvinder Singh; Kamaljeet Singh; Gagandeep Kaur								
11:50 - 12:05 PM	21	Ranking of Structural Composite Batteries for Sustainable Agricultural Equipment	Mathusoothanaa T.S. Divya Zindani; Gurumukh Das; Gurdeep Singh		11:50 - 12:05 PM	76	Sintering Temperature Optimization for Terbium Doped Strontium Hexaferrite with Improved Microwave Properties	Shivani Malhotra		11:50 - 12:05 PM	126	Evaluation of Critical connections in an Irregular Precast building	Kezia Beesa Sukeerthi; BDV Chandra Mohan Rao								
12:05 - 12:20 PM	32	L-Aspartic acid based molecular rectifier using dissimilar electrodes	Gaurav Sikri; Ravinder Singh Sawhney; Rajni		12:05 - 12:20 PM	118	Application of UPIOT Based Power Monitoring System	Amandeep Dhiman; Rehana Perveen		12:05 - 12:20 PM	100	Comparison of Dielectric Properties of Sol-Gel Derived Pure and Calcium Modified Lead Zirconate Titanate Ceramics and Thick Films of Compositors Near MPB	Anupama Sachdeva								
12:20 - 12:35 PM	33	PERFORMANCE AND EMISSION INVESTIGATIONS OF CI ENGINE USING BLENDS OF CORN OIL BIODIESEL AND TURPENTINE	Kudrat Ansari; Geetesh Goga; Ravindra Mohan		12:20 - 12:35 PM	119	UPIOT Based Power Monitoring of Transformer	Amandeep Dhiman; Rehana Perveen		12:20 - 12:35 PM	48	Adsorption: A preferred technique for fluoride removal from water	Lakhan Taneja; Chinky Kochar; Praveen Kumar Yadav; S. Swarupa Tripathy								
12:35 - 12:50 PM	44	Converter Topologies of DFIG based Wind Energy Conversion System	Birinderjit Singh; Arkaprabha Dutta		12:35 - 12:50 PM	47	Dissolution behaviour of Nanoparticles and its usefulness in understanding the toxicity of nanoparticles- A Review.	Chinky Kochar; Lakhan Taneja; Praveen Kumar Yadav; S.Swarupa Tripathy		12:35 - 12:50 PM	81	Screening of low-cost waste materials for removal of phosphorus from wastewater in Constructed Wetlands	Vandana Patyal; Dipika Jaspal; Kanchan Khare								
12:50 - 1:35 PM		Lunch Break																			
Paper Presentations in Parallel Tracks Continue																					
Track 3 Chairs: Manash Chanda and Dr. Arun Upmanyu Coordinator: Dr. Rahul Pandey (+91-8527503843)																					
Track 4 Chairs: Prof. Rishu Chaujar and Dr. Manish Sharma Coordinator: Dr. Jaya Madan (+91-9210908163)																					
Track 5 Chairs: Dr. Harsupreet Kaur and Dr. Ajay Sharma Coordinator: Mr. Sagar Juneja (+91-9625441043)																					
1:35 - 1:50 PM		Invited talk by Dr. Manas Chanda (PID 141), Meghnad Saha Institute Of Technology, Kolkata				1:35 - 1:50 PM				Invited talk by Prof. Rishu Chaujar (PID 142), Department of Applied Physics, Delhi Technological University, Delhi				1:35 - 1:50 PM				Invited talk by Dr. Harsupreet Kaur, Department of Electronic Science, University of Delhi South Campus			
1:35 - 3:05 PM		1:35 - 1:50 PM				1:35 - 1:50 PM				1:35 - 1:50 PM				1:35 - 1:50 PM							
Time	Paper ID	Title	Authors		Time	Paper ID	Title	Authors		Time	Paper ID	Title	Authors								
1:50 - 2:05 PM	67	Design Methodology of a Surface Plasmon Resonance-based Affinity Biosensor Using Instantaneous Poynting Vector Analysis	HIMANSHU KUSHWAH; Jagneet Kaur Anand; Anil Sethi		1:50 - 2:05 PM	133	Performance and emission characteristics of Mahua Blended Biodiesel	Kudrat Ansari; Geetesh Goga; Ravindra Mohan		1:50 - 2:05 PM	131	Bamboo as a Sustainable Building Construction Material	Antony K Bolty; HARVEEN BHANDARI; Saurabh Shukla								
2:05 - 2:20 PM	68	Solutions of Electric Flux Lines in Transverse-Magnetic Surface Plasmon Modes at Metal-Dielectric Interface	Jagneet Kaur Anand; HIMANSHU KUSHWAH; ANUPAMA SACHDEVA		2:05 - 2:20 PM	139	A review on thermochemical conversion process for energy applications by using rice straw	Maninderjeet Singh; Nitin Saluja; Varinder Singh		2:05 - 2:20 PM	127	A comparative study on seismic analysis of Regular and Plan Irregular buildings resting on different soils	Munni Vanjari; BDV Chandra Mohan Rao								
2:20 - 2:35 PM	129	Briefings on e-waste hazard until COVID era in India	Pallavi Aggarwal; Mohit Rana; Shalom Akhai		2:20 - 2:35 PM	137	Rogers Ratio test for fault diagnosis of transformer using dissolved gas analysis	Arrik Khanna; Pushpanjali Bisht		2:20 - 2:35 PM	140	Screening the six plant species for phytoremediation of synthetic textile dye waste water	Dr Jyotsna Kaushal; Navjeet Kaur								
2:35 - 2:50 PM	66	CFD Analysis on a Water Turbine Blade	J Sai Pavan Kumar; G Siddhartha Ganapathi; M Vinay Rao; M Varshik; Santosh Naik		2:35 - 2:50 PM	61	Synthesis and performance of bimetallic Poly vinyl alcohol beads in electrocatalytic denitrification	Manali A Date; Dipika Jaspal; U. D. Patel		2:35 - 2:50 PM	115	Bibliometric analysis of India and United States of America for published research in water science and technology	Dr Jyotsna Kaushal; Lata Rani; Arun Srivastav								
2:50 - 3:05 PM	69	Multiresponse optimization of EDM parameters for tungsten carbide using TGRA	Mohit Rana; Pallavi Aggarwal; Talvinder Singh; Vijay K Sharma; Kamaljeet Singh		2:50 - 3:05 PM																