Tentative Program

International Conference on Thin Films and Nanotechnology: Knowledge, Leadership & Commercialization (ICTN-KLC-2025)

11th-13th December 2025

Conference Patron
Prof. Rangan Banerjee
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Day 1 (December 11th)		
Registration: 9:00 AM - 9:30 AM		
Inaugural Session and Welcome to the Guests (Venue: LHC 325) **9:30 AM – 10:30 AM**		
High Tea (10:35 AM - 11:00 AM)		
Plenary Speaker 1: 11:00 AM - 11:45 AM (Venue: LHC 325) **Session Chairs: Prof. Rajendra Singh, Associate Dean, R&D and Prof. Pankaj Srivastava, IIT Delhi**		
Prof. Dr. Sanjay Mathur, Director, Institute of Inorganic Chemistry, University of Cologne, Germany **Title: Catalysts of Change: Advanced Nanomaterials Steering Health and Energy Transition**		
Session / Time	**Energy Generation** **(Venue: LHC 318)**	**Energy Storage/Interdisciplinary Science and Engineering** **(Venue: LHC 316)**
Invited Talks: Session 1	**Session Chair:** **Prof. D.K. Pandya, Ex. HoD Physics and Adjunct Professor, IIT Jammu**	**Session Chair:** **Prof. Vipin Kumar, IIT Delhi**
T01- 11:45 AM - 12:05 PM	**Prof. Sanjay K. Srivastava, CSIR NPL** **Title: Efficient Organic Semiconductor-Silicon Hybrid Solar Cells Employing Effective Light Trapping Schemes**	**Prof. Hemant Kumar, IIT Bhubaneswar** **Title : Interplay of Solvation and ion transport in liquid electrolytes**
T02- 12:05 PM - 12:25 PM	**Prof. Jatin Kumar Rath, IIT Madras** **Title: Evolution of PDS and FTPS techniques to probe the functioning of solar cells**	**Prof. Prasanth Raghavan, Cochin University of Science and Technology (CUSAT)** **Title: Smart Textiles for Flexible and Stretchable Energy Harvesting and Storage Applications**
T03- 12:25 PM - 12:45 PM	**Prof. Vamsi K. Komarala, IIT Delhi** **Title: Fabrication and Characterization of Hetero-Junction Solar Cells for High Efficiency**	**Prof. Bhanu Nandan, IIT Delhi** **Title: Functionalized Textile Based Electrode Materials for Lithium Sulfur Batteries**
T04- 12:45 PM - 01:05 PM	**Prof. Oomman K. Varghese, University of Houston, USA**	**Prof. Eswaraiah Varrla, SRM Institute of Science and Technology, Kattankulathur Campus, Tamil Nadu**

	Title: Revealing the Novel Properties of Low Dimensional Semiconductors via In Situ Studies and Numerical Simulations	**Title: Liquid-Exfoliated Two-Dimensional Nanosheets: Energy Efficient Approaches and Self-assembly Processes**
Lunch (1:05 PM – 2:00 PM)		
Invited Talks: Session 2	**Session Chair: (Venue: LHC 318)** **Prof. Sandeep Chhoker, JIIT Noida**	**Session Chair:(Venue: LHC 316)** **Prof. Hemant Kumar, IIT Bhubaneswar**
T05- 02:00 PM - 02:20 PM	**Prof. Pabitra K. Nayak, TIFR Hyderabad** **Title: Doping of soft semiconductors for stable and efficient optoelectronics**	**Prof. Arihant Bhandari, IIT Delhi** **Title: Simulations of few-layer graphene-based electrodes for electrochemical energy storage.**
T06- 02:20 PM - 02:40 PM	**Dr. Suraj Soman, CSIR-NIIST Thiruvananthapuram** **Title : From Lightbulbs to Lifelines: Powering the Future with Indoor Light**	**Prof. Deepak Kumar, IIT Delhi** **Title: Co-utilization strategy-based nano-composite Gr-Si anode for Li-Ion battery**
S01- 02:40 PM - 02:50 PM	**Dr. Telugu Bhim Raju, Kyushu University Japan**	**Mr. Shubham Mural, NSUT**
S02- 02:50 PM - 03:00 PM	**Dr. Dinesh Kumar, IIT Madras**	**Ms. Gazal Gupta, IIT Delhi**
S03- 03:00 PM - 03:10 PM	**Mrs. Ankita Sharma, SNU Delhi**	**Mr. M Humam Zaim Faruqi, IIT Delhi**
S04- 03:10 PM - 03:20 PM	**Mr. Rajesh Maurya, IIT Madras**	**Mr. Jasil T K, NITK Surathkal**
S05- 03:20 PM - 03:30 PM	**Impulse Technology (Industry)**	**Ms. Piyali Biswas, IIT Patna**
3:30 PM - 4:30 PM:		**Poster Evaluation**
Tea/Coffee (4:00 PM - 4:30 PM)		
Plenary Speaker 2: 4:30 PM - 5:30 PM (Venue: LHC 325) **Session Chair: Prof. Sanjay Mathur, Director, Institute of Inorganic Chemistry, University of Cologne, Germany**		
Prof. V. Ramgopal Rao, Fellow of IEEE, TWAS, INAE, IASc, INSA, NASI **Group Vice-Chancellor for the Birla Institute of Technology & Science (BITS) Pilani** **Title: From Atoms to Applications: Translating Nanoscience into Real-World Innovation**		

Day 2 (December 12th)		
Plenary Speaker 3: 09:30 AM - 10:15 AM (Venue: LHC 325) **Session Chair: Prof. Gyu-Min Kim, Hankyong National University, Anseong, Republic of Korea**		
Prof. Shyam Sudhir Pandey, Graduate School of Life Science and Systems Engineering Department of Biological Functions Engineering, Kyushu Institute of Technology, Japan **Title: Facile Fabrication of Large Area Oriented Thin films and their 2D-Positional Mapping for Organic Electronic Devices**		
Tea/Coffee (10:15 AM - 10:30 AM)		
Session / Time	**Energy Generation (Venue: LHC 318)**	**Energy Storage/Interdisciplinary Science and Engineering (Venue: LHC 316)**
Invited Talks: Session 3	**Session Chair: Prof. Gyu-Min Kim, Hankyong National University, Anseong, Republic of Korea**	**Session Chair: Prof. Deepak Kumar, IIT Delhi**
T07- 10:30 AM - 10:50 AM	**Dr. Bhumika Choudhary, University of Turku, Finland** **Title: Structurally Tunable Perovskite for Stable Thin film Optoelectronics**	**Prof. Vanchiappan Aravindan, IISER, Tirupati** **Title: Materials & coating for batteries, super-capacitors and fuel cells**
T08- 10:50 AM - 11:10 AM	**Dr. Rashi Kedia, Amity University, Noida, Uttar Pradesh** **Title: Solvent-Free Deposition of Copper(I) Thiocyanate Thin Film: A Sustainable Approach for the Hole Transport Layer in Perovskite Solar Cells**	**Prof. Abhishek Sarkar, IIT Delhi** **Title: High Entropy Oxides: Opportunities and Challenges**
T09- 11:10 AM - 11:30 AM	**Dr. Ashish Kulkarni, IIT Tirupati** **Title: Insulating Metal Oxide and Self-Assembled Monolayer Interface for Efficient Perovskite Solar Cells**	**Prof. Rajendra Singh Dhaka, IIT Delhi** **Title: Sodium-ion Batteries for Sustainable Future and Viksit Bharat**
T10- 11:30 AM - 11:50 AM	**Dr. Saurabh Kumar Pandey, IIT Patna** **Title: Numerical Simulation of Bismuth-based**	

	highly efficient eco-friendly Perovskite solar cell	
S6- 11:50 AM - 12:00 PM	Dr. N. Sivakumar, IIT Madras	Mr. Ankit Kumar Deval, IIT Roorkee
S7- 12:00 PM - 12:10 PM	Mr. Snehangshu Mishra, IIT Kharagpur	Ms. Bhavani Sankaran, SRMIST Tamilnadu
S8- 12:10 PM - 12:20 PM	Mr. Milan Kumar Mandal, IIT Kharagpur	Ms. Toiba Manzoor, NSUT Delhi
S9- 12:20 PM - 12:30 PM	Mr. Nilesh, IIT Madras	Dr. Mahesh Chandra, IIT Delhi
12:30 PM - 1:00 PM Networking		
Lunch (01:00 PM - 02:00 PM)		
Special Talk 1: 02:00 PM - 02:45 PM (Venue: LHC 325) Session Chair: Prof. Raju Kumar Gupta, IIT Kanpur Prof. Ramakrishna Ramanath Sonde, BITS Pilani Goa Campus Title: Energy transition and net zero pathway for India: Molecular Insights to Industrial Impact		
Invited Talks: Session 4	Session Chair: (Venue: LHC 318) Dr. Bhumika Choudhary, University of Turku, Finland	Session Chair: (Venue: LHC 316) Prof. Manika Khanuja, Jamia Millia Islamia, New Delhi
T11- 02:45 PM - 03:05 PM	Mr. Arup Dhar, NISE, Gurugram Title: Accurate translation of outdoor IV Measurements to STC for Photovoltaic Modules across Diverse Technologies	Prof. Somnath Chandra Roy, IIT Madras Title: An Exciting World of One-dimensional Metal Oxide Nano- and Hetero-structures
T12- 03:05 PM - 03:25 PM	Mr. Awatans Tripathi, GIZ India, New Delhi Title: Improving the pre-conditions of BIPV in India	Prof. Shree Prakash Tiwari, IIT Jodhpur Title: Flexible Electronic Devices for Smart Sustainable Systems
S10-03:25 PM - 03:35 PM	Networking	Networking
I1- 03:35 PM - 03:55 PM	RENEW (Venue: LHC 318)	RENEW (Venue: LHC 318)
I2- 03:55 PM - 04:15 PM	Bry Air (Venue: LHC 318)	Bry Air (Venue: LHC 318)

Tea/Coffee (4:15 PM - 4:30 PM)	
04:30 PM - 05:30 PM:	**Panel Discussion (Venue: LHC 325)** **Title: Energy Transition in India: Challenges and Opportunities Towards Sustainable Energy Goals**
05:30 PM - 06:45 PM:	**Poster Evaluation**
Gala Dinner 7:00 PM Onwards (Venue: ESSEX Banquet, https://maps.app.goo.gl/NJYpWnWb47CZmStm6)	

Day 3 (December 13th)

Energy Generation(Venue: LHC 318)	Energy Storage/Interdisciplinary Science and Engineering (Venue: LHC 316)	Other Interdisciplinary Areas (Venue: LHC 325)

Special Talk 2: 09:30 AM - 10:15 AM : **Session Chair: Prof. Trilok Singh, IIT Delhi**			**Session Chair** **Prof. Pawan K. Kulriya, JNU**	**9:00-10:45 AM**	**Networking session**
Prof. Gyu Min Kim, Hankyong National University, Anseong, Republic of Korea **Title: Ambient-Tolerant Mechanochemical Powder Strategy combined with Alkali-Metal-Integrated HTLs for Stable, Solvent-Minimal Perovskite Devices**		**T13- 09:30 - 09:50 AM**	**Prof. Raju Kumar Gupta, IIT Kanpur** **Title: NASICON-Based Electrolytes for Solid-State Sodium-Ion Batteries**		
		S11- 09:50 - 10:00 AM	**Mr. Vineeth S K, IIT Delhi**		
		S12- 10:00 - 10:10 AM	**Mr. Bheem Kumar, JNU Delhi**		
		S13- 10:10 - 10:20 AM	**Dr. Rajesh Kumar Jha, ICFAI Hyderabad**		
T13- 10:15- 10:35 AM	**Prof. Upendra Pandey, Shiv Nadar Institution of Eminence** **Title: Indenofluorene Dimer as an Efficient Interlayer for High-Performance Perovskite Solar Cells**	**S14- 10:20 - 10:30 AM**	**Mr. Shubhang Srivastava, IIT Madras**		
		S15- 10:30 - 10:40 AM	**Mr. Ashwin, IIT Delhi**		

Tea/Coffee (10:45 AM - 11:00 AM)					
Invited talks	**Session Chair:** **Prof. Upendra Pandey, SNU Noida**		**Session Chair** **Prof. Sandeep Chhoker, JIIT Noida**		**Session Chair** **Prof. Suresh C. Sharma, DTU, Delhi**
T14- 11:00- 11:20 AM	**Prof. Pankaj Yadav, Pandit Deendayal University, Gujarat** **Title : Automated EIS Analysis of Metal Halide Perovskite Single Crystals Using Machine Learning for Activation Energy Prediction**	**T14- 11:00 - 11:20 AM**	**Prof. Ankur Goswami, IIT Delhi** **Title: Tungsten doped VO_2 thin film based resistive micro-oscillators for the application in neuromorphic systems**	**T1- 11:00 AM - 11:20 AM**	**Prof. Hemant Sagar, IIT Roorkee** **Title: Advancing Toward 2070 Net-Zero: Hydropower Potential and Cavitation–Silt Problems Across Scales**
T15- 11:20 AM - 11:40 AM	**Mr. Dileep Tiwari, Executive - Renewable Energy, Gujarat** **Title: Unleashing Renewable Energy Opportunities: Policies, Strategies for Emerging Challenges, and the Path to Sustainable Investment in Gujarat**	**T15- 11:20 - 11:40 AM**	**Prof. Rishi Sharma, BIT Mesra** **Title: Cold Plasma Processing for Surface Engineering**		
S11- 11:40 AM - 11:50 AM	**Mr. Nitin Kumar Bansal, IIT Delhi**	**S16- 11:40 AM 11:50 AM**	**Dr. Daljit Kaur, DAV University**	**S1- 11:20 AM - 11:30 AM**	**Dr. Sanjay Baghel, Dr. A.P.J. Abdul Kalam Technical University**

S12- 11:50 AM - 12:00 PM	Mr. Siddhant Singh, IISc Bangalore	S17- 11:50 AM - 12:00 PM	Dr. Charu Lata Dube, CUG	S2- 11:30 AM - 11:40 AM	Mr. Aloka Ranjan Sahoo, IGCAR
S13- 12:00 PM - 12:10 PM	Mr. Vipin C K, CSIR-NIIST Kerala	S18- 12:00 PM - 12:10 PM	Ms. Paulomi Singh, IIT Delhi	S3- 11:40 AM - 11:50 AM	Mr. Sujoy Paul, IIT Delhi
S14- 12:10 PM - 12:20 PM	Mr. Manoj Kumar, VIT AP University	S19- 12:10 PM 12:20 PM	Ms. Fatima Zehra, JMI	S4- 11:50 AM - 12:00 PM	Mr. Vidit Pandey, AMU
S15- 12:20 PM - 12:30 PM	Ms. Neha Chakraborty, BIT Mesra, Ranchi	S20- 12:20 PM - 12:30 PM	Ms. Bhawna SU, Gurugram	S5- 12:00 PM - 12:10 PM	Mr. Dishant Sharma, IIT Delhi
S16- 12:30 PM - 12:40 PM	Networking	S21- 12:30 PM - 12:40 PM	Ms. Barsha Priyadarshini, CSIR IMM	S6- 12:10 PM - 12:20 PM	Mr. Pallav Sahu, IIT Delhi
S17- 12:40 PM – 1:00 PM	Networking	S22- 12:40 PM - 12:50 PM	Rishav Pandey, IIT Delhi	S7- 12:20 PM - 12:30 PM	Dr. Sonu, IIT Delhi

Lunch (01:00 PM – 02:00 PM)

Plenary Speaker 4: 02:00 PM - 02:45 PM (Venue: LHC 325)

Session Chair: Prof. D.K. Pandya, Ex. HoD Physics and Adjunct Professor, I.I.T. Jammu

Prof. Bhim Singh, ANRF National Science Chair & Emeritus Professor, Department of Electrical Engineering, IIT Delhi

Title: Solar Photovoltaic Energy-A Sustainable Solution for Humanity

Invited Talks:	Session Chair Prof. Pankaj Yadav, PDU Gujrat (Venue: LHC 318)		Session Chair Prof. Vipin Kumar, IIT Delhi (Venue: LHC 316)	Invited Talks:	Session Chair Prof. Manika Khanuja, Jamia Millia Islamia, (Venue: LHC 325)
T16- 02:45 PM - 03:05 PM	Prof. Dibyajyoti Ghosh, IIT Delhi Title: Designing Layered Halide Perovskites for Optoelectronics: Insights from ab initio and data-driven modeling	T16- 02:45 - 03:05 PM	Prof. Manika Khanuja, Jamia Millia Islamia, New Delhi Title: Machine Learning–Enabled Acceleration of Catalytic Reaction Pathways and Sensing Performance in 2D Nanomaterials	T2- 02:45 PM - 03:05 PM	Prof. Suresh C. Sharma, DTU, Delhi Title: Plasma-Assisted Vertically Aligned Semiconducting 2D Graphene Field Effect Transistor Based Biosensor for

					Detection of Various Cancerous Bio-molecules
		T17- 03:05 - 03:25 PM	**Prof. Jai Singh, Guru Ghasidas Vishwavidyalaya, Bilaspur** **Title: MoS_2 monolayer, bi-layer thin films fabricated by RF sputtering and pulsed laser deposited ZnO thin-films/nanostructures**		
		T18- 03:25 - 03:45 PM	**Prof. Ulganathan Mani Amrita Vishwa Vidyapeetham** **Title: Strategies for Enhancing Zinc-Iron Hybrid Redox Flow Battery**		
S18- 03:05 PM - 03:15 PM	**Ms. Shilshiya B. G, NIT Tiruchirappalli**			**S8- 03:05 PM - 03:15 PM**	**Mr. Sivaramasudhan S, ISRO Bengaluru**
S19- 03:15 PM - 03:25 PM	**Mr. Ronaldo Roy, NIT Tiruchirappalli**			**S9- 03:15 PM - 03:25 PM**	**Prof. Abhinav Anand, VIT**
Tea/Coffee (3:45 PM - 4:00 PM)					
04:00 PM – 05:30 PM: Valedictory Function (Venue: LHC 325)					
Closing Remarks					

***LHC : Lecture Hall Complex, 325: Third floor room no 25**

Oral Presentations

Energy Generation

Oral Code	Name	Affiliation	Topic
S01	Dr. Telugu Bhim Raju	MCI-CNRC, Kyushu University, Japan	Design and development of organic hole transport materials for n-i-p structure perovskite solar cells
S02	Dr. Dinesh Kumar	Semiconductor Thin Film and Emerging Photovoltaic Laboratory, Indian Institute of Technology Delhi,	Fluorinated Two-Dimensional Interfacial Layers for Grain-Boundary Passivation and Enhanced Stability in Perovskite Photovoltaic Devices
S03	Mrs. Ankita Sharma	Shiv Nadar Institution of Eminence, G.B. Nagar, Uttar Pradesh	Mitigating Interfacial Defects with Discotic Liquid Crystal Interlayer: A Dual Function Strategy for Efficient and Durable Perovskite Solar Cells
S04	Mr. Rajesh Maurya	Department of Physics, Indian Institute of Technology Madras, Chennai, India	An adapted ALD method to fabricate low-resistivity and high-transparency aluminum-doped zinc oxide TCO for silicon heterojunction solar cells
S05		**For Impulse Technology**	**For Impulse Technology**
S06	Dr. N. Sivakumar	IIT Madras	New insight on the effect of 2D spacer (4FPEAI) treatment on 3D perovskites for the development of stable 2D/3D perovskite solar cells
S07	Mr. Snehangshu Mishra	IIT Kharagpur	Performance of mixed cation-mixed halide perovskite solar cell under Indoor Illumination
S08	Mr. Milan Kumar Mandal	IIT Kharagpur	Hybrid mesoporous structure for improvement in the performance of DSSC
S09	Mr. Nilesh	IIT Madras	Homoepitaxial Growth of Titanium Dioxide Using Plasma-Enhanced Atomic Layer Deposition
S10			Networking
I1			RENEW

I2			Bry Air
S11	Mr. Nitin Kumar Bansal	Indian Institute of Technology Delhi	Functional Layer Optimization and Tuning of Interfacial Dipole for Highly Stable Air-Ambient Fabricated Perovskite Solar Cells
S12	Mr. Siddhant Singh	Indian Institute of Science, Bengaluru	A Scalable Dopant-Free Spiro-OMeTAD: P3HT composite HTL Strategy for Stable, High-Efficiency Perovskite Optoelectronics
S13	Mr. Vipin C K	CSIR-National Institute for Interdisciplinary Science and Technology (NIIST)	Hysteresis-Free Carbon-Based Perovskite Solar Cells with Enhanced Open-Circuit Voltage for Indoor Photovoltaics
S14	Mr. Manoj Kumar	VIT-AP University	FTM-Controlled Aligned Organic Semiconducting Thin Films: Advances,Challenges, and Device Applications
S15	Ms. Neha Chakraborty	Birla Institute of Technology Mesra	Long-term photovoltaic study of AZO, ITO, and FTO electrode-based Dye-Sensitised Solar Cells
S16			Networking
S17			Networking
S18	Ms. Shilshiya B. G	NIT Triuchirappalli	Exploring the memristive behaviour in spray pyrolyzed cerium oxide thin film
S19	Mr. Ronaldo Roy	NIT Triuchirappalli	Growth and Characterization of CuMnS Thin Films by SILAR for Heterojunction Applications

Energy Storage/Interdisciplinary Science and Engineering

Oral Code	Name	Affiliation	Topic
S01	Mr. Shubham Mural	Netaji Subhas University of Technology (NSUT)	Mxene/Activated Carbon Composite based electrode for High Performance Supercapacitor
S02	Ms. Gazal Gupta	Indian Institute of Technology Delhi	Investigating The Extended Interlayer MoS2 Cathode Performance In Magnesium-Lithium Hybrid Electrolyte Cells
S03	Mr. M Humam Zaim	Department of Chemical	Architecture-driven Performance Enhancement in Lithium-ion

	Faruqi	Engineering, IIT Delhi	Batteries
S04	Mr. Jasil T K	NITK SURATHKAL	A Density Functional Theory Study of NbX2 (X=Se, Te) monolayers for Electrodes of Energy Storage Devices
S05	Ms. Piyali Biswas	Department of Physics, IIT Patna	Electrochemical properties modification by chemical pressure in Fe, Ni, and Co doped Lanthanum Silver Manganite-based electrode for Supercapacitor
S06	Mr. Ankit Kumar Deval	IIT Roorkee	C–C Linked Porphyrin-Based COFs for High-Performance Aqueous Zn-Ion Hybrid Supercapacitor
S07	Ms. Bhavani Sankaran	SRM Institute of Science and Technology, Tamilnadu,	CuCo MOF/Ni(OH)2 Composite for High-Performance Supercapacitor electrode
S08	Ms. Toiba Manzoor	Netaji subhas university of technology	Bio-waste derived activated carbon for energy storage applications
S09	Dr. Mahesh Chandra	Indian Institute of Technology Delhi	Development of High Energy Density Room Temperature Na-S Batteries
S10			Networking
I1			RENEW
I2			Bry Air
S11	Mr. Vineeth S K	Indian Institute of Technology Delhi	Tailoring the solvation through molecular engineering in a blend quasi-solid polymer electrolyte for a high-performance sodium metal battery
S12	Mr. Bheem Kumar	JNU Delhi	Synergistic $Ti_3C_2T_x$ MXene Quantum Dots/Nanosheets Hybrid: Elevating Supercapacitor Performance
S13	Dr. Rajesh Kumar Jha	ICFAI Foundation for Higher Education, Hyderabad	Ferroelectric Behavior of Undoped PEALD HfO_2 Thin Films for Scalable Non-Volatile Memory Applications
S14	Mr. Shubhang Srivastava	IIT Madras	Optimal Selection of Surface Functionalized SnO2 Dispersed Lubricants using Bootstrap based Statistical Methods for Tribology in Energy Applications

S15	Mr. Ashwin	Indian Institute of Technology Delhi	Characterization of HVOF-sprayed Co-NiCrAlY-Al_2O_3 coatings with variable ceramic fraction for erosion behaviour evaluation of hydraulic turbine steel
S16	Dr. Daljit Kaur	Department of Physics, DAV University, Jalandhar-Pathankot National Highway NH-44, Jalandhar,India	Next-Generation Nanocomposites: Emerging Photocatalysts for Energy and Environmental Applications
S17	Dr. Charu Lata Dube	Central University of Gujarat	Investigation of optical property of titanium-tungsten oxide doped borosilicate glasses synthesised via microwave-assisted heating and conventional heating method: A comparative study
S18	Ms. Paulomi Singh	Indian Institute of Technology Delhi	Early Detection of Lung Cancer Using Vacancy-Ordered Perovskite
S19	Ms. Fatima Zehra	Jamia Millia Islamia	Machine Learning-Based Colorimetric Detection of Mercury via Nanozyme Activity of MOF Nanocomposite
S20	Ms. Bhawna	Department of Physics, School of Physical Sciences, Starex University, Gurugram Haryana 122413, India	Effect of Applied Electric Field During Spray Deposition on the Properties of ZnO Thin Films
S21	Ms. Barsha Priyadarshini	CSIR - Institute of Minerals and Materials Technology	Navigating Marine Corrosion: The Synergistic Effects of Nitrogen in TiMoN Coatings
S22	Mr. Rishav Pandey	Indian Institute of Technology Delhi	Design, Fabrication, and Characterization of Wide Bandgap RadHard Semiconductor Detectors for Applications in Particle Colliders and Particle Detectors in High Energy Physics

Other Interdisciplinary Areas

Oral Code	Name	Affiliation	Topic
S1	Mr. Sanjay Baghel	Dr. A.P.J. Abdul Kalam Technical	Tailoring Structural, Morphological, Magnetic, and Optical

		University	Properties of Mn and Fe-Doped TiO2 Nanoparticles for Next-Generation Functional Materials
S2	Mr. Aloka Ranjan Sahoo	Indira Gandhi Centre for Atomic Research, Kalpakkam	Tailoring Structural, Morphological, Magnetic, and Optical Properties of Mn and Fe-Doped TiO2 Nanoparticles for Next-Generation Functional Materials
S3	Mr. Sujoy Paul	Indian Institute of Technology Delhi	Process Optimization of Sub-5 μm MEMS-Based SAW Resonators on $LiNbO_3$ for Biomedical Sensing Applications
S4	Mr. Vidit Pandey	Department of Physics, Aligarh Muslim University, India	Mn3O4-based Bipolar Resistive Switching Memory Devices
S5	Mr. Dishant Sharma	Indian Institute of Technology Delhi	Surface-Based Passive Mitigation Effects on Wake Structure and Aerodynamic Performance of an H-Rotor Vertical Axis Wind Turbine
S6	Mr. Pallav Sahu	Indian Institute of Technology Delhi	Improved Cavitation Characterization Using PANS on a Francis-Turbine Hydrofoil Section
S7	Dr. Sonu	Indian Institute of Technology Delhi	PANS Turbulence Model Based One-Way Fluid-Structure Interaction Analysis of a KP505 Propeller
S8	Mr. Sivaramasudhan S	Laboratory for Electro-Optics Systems (LEOS), ISRO	Challenges in Development of Silver Coating for Space Applications
S9	Prof. Abhinav Anand	Vellore Institute of Technology, Vellore	Optical and Scintillation Properties of Record-Efficiency CdTe Nanoplatelets toward Radiation Detection Applications

Poster Presentations

Energy Generation

Oral Code	Name	Affiliation	Topic	Date
P001	Mrs. Bhagyashri S.Bhalkar	Atigres, Kolhapur	Smart Wireless Throttle Body in Automobile System	11/12/25
P002	Aman Kumar	DTU, Delhi	High Output Piezo and Triboelectric generator based on MwCNT/Nd- doped ZnO/PVDF nanocomposite film for Energy Harvesting Application	12/12/25
P003	Sujata shekhawat	Jaypee Institute of Information Technology, NOIDA	Investigation of the deposition parameters for simulating the growth dynamics of vanadium carbide nanosheet in plasma enhanced chemical vapour deposition system	11/12/25
P004	Akshita Sharma	D.S. College, Aligarh	Growth of Reusable Zinc Ferrite Nanoparticles for White LED-based Photocatalytic Treatment	12/12/25
P005	Jigyasa Sharma	Starex University, Gurugram	Eco-Friendly Synthesis and characterization of ZnO Nanoparticles Using Neem Extract for Improved Structural and Optical Performance	11/12/25
P006	Partha Mishra	Indian Institute of Technology Delhi	Dual-Mode Quantum Dot-Based Optoelectronic Physical Unclonable Function for Secure Authentication and Anti-Counterfeiting Applications	12/12/25
P007	Saumya Srivastava	Indian Institute of Technology, Indore	Polymer–MXene–Viologen-Based Suprahybrid Electrochromic Device: Flexible Smart Window with Visible and Near-Infrared Switchability	11/12/25
P008	Bhawana Tripathi	BHU, Varanasi	Titanium Dioxide Based DSSCs.	12/12/25
P009	Mr. Animesh Anand	Indian Institute of Technology Delhi	EIS Study of PSCs	11/12/25
P010	Mr. Deepak Yadav	IIT Delhi and NISE	Simulation of 2T & 4T Textured Silicon–Perovskite Tandem Solar Cell using SETFOS	12/12/25

P011	Mr. Sidhanta Gupta	Indian Institute of Technology Delhi	Interface and Energy Band Engineering in Perovskite Solar Cells	11/12/25
P012	Ms. Parul Sharma	J.C. Bose University of Science and Technology, YMCA, Faridabad,	Understanding the Role of Pendant Chain and Cationic Head Groups in Perfluorinated Anion Exchange Membranes	12/12/25
P013	Mr. Sujit Kumar	National Institute of Technology Karnataka	Numerical analysis of CsGeI3-based perovskite solar cell for indoor light harvesting	11/12/25
P014	Ms. Ankita Sao	Indian Institute of Technology, Delhi	Simulation-Based Optimization and Current Matching Strategy for High-Performance Perovskite/Silicon Tandem Solar Cells	12/12/25
P015	Mrs. Rinki	National physical laboratory, New Delhi	Enhanced Surface Passivation and Interface Quality of Ultrathin HfO_x Films Deposited by PEALD on Silicon	11/12/25
P016	Mr. Navneet Singh	Indian Institute of Technology Delhi	Optimizing Vacancy Ordered Perovskite Solar Cells (Cs2SnI6) Using SCAPS-1D Simulations	12/12/25
P018	Mr. Chaitanya Devashu S S Lodhi	Indian Institute of Technology, Delhi	Electrochemical Impedance Spectroscopy Analysis of Interfacial Layer Effects in FAPbI3 Perovskite Solar Cells	11/12/25
P019	Mr. Andrew Simon George	CSIR-NIIST, Kerala	Novel Z-W and W2 solar module architecture – pathway towards utilization of the 3 orthogonal axes for electron flow	12/12/25
P020	Mr. Shahnawaz Alam	Indian Institute of Technology, Delhi	"Controlling Ion Flux via Substrate Biasing during ITO deposition: A Key to Preserving Passivation Quality in Silicon Heterojunction Solar Cells "	11/12/25
P021	Mr. Richik Datta	Indian Institute of Technology, Delhi	AI/ML driven studies of perovskite solar cells for Indoor Applications	12/12/25
P022	Mr. Sunil Kumar	D .S. College Aligarh Uttar	“Tailored Band Alignment and Enhanced Interface	11/12/25

		Pradesh	Engineering in SnS based Thin Film Solar Cell Heterostructure"	
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P024	Mr. Arnab Jyoti Mandal	Indian Institute of Technology, Delhi	Impact of reduced wafer thickness on the performance of the Silicon Heterojunction Solar Cell	11/12/25
P025	Ms. Aditi Manna	Indian Institute of Technology, Delhi	Engineering charge transport in colloidal nanoparticles for optoelectronic device applications	12/12/25
P026	Ms. Farzana Rikta	Indian Institute of Technology Delhi	Design and Simulation of a Two-Terminal Perovskite–Chalcogenide Tandem Solar Cell	11/12/25
P027	Diksha	*CSIR-National Physical Laboratory, New Delhi*	Pivotal role of piranha cleaning in optimizing silicon surface morphology and enhancing solar cells performance	12/12/25
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P029	Mohammad Aamir	BML Munjal University, Gurugram,	Computational investigations on oligomeric charge transport materials having (D 1) n –π–D 2 (n = 1, 2, … 5) type of molecular architecture for perovskite solar cell applications	12/12/25
P030	Rakesh Kumar Pandey	BIT Mesra, Ranchi	Exploring the Role of Fe-Doping in Enhancing the Stability and Optoelectronic Properties of Lead-Free $MASnI_3$ Perovskite Thin Films	11/12/25
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P033	Nirajkumar Motilal Yadav	Indian Institute of Technology, Delhi	Curing temperature optimization for screen printed Silicon Heterojunction Solar Cell	11/12/25

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P036	Binita Boro	IIT Kharagpur	Self-Powered Visible Photodetector using Mixed Cation Mixed Halide Perovskite	12/12/25
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P038	Mr. Mahaveer Singh	JAWAHARLAL NEHRU UNIVERSITY	SYNTHESIS AND CHARACTERIZATION OF TMDCS FOR SUPERCAPACITOR APPLICATION	12/12/25
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P040	Mr. Kundan Kumar Mishra	Indian Institute of Technology Delhi	A Sustainable Binder for High-Voltage Graphite Cathodes in Sodium Dual-Ion Batteries	12/12/25
P041	Mr. Shankar Kr. Choudhary	Dayanand Anglo-Vedic College Kanpur, U.P	Solid state electrolyte for Li ion Batteries	11/12/25
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P044	Ms. Deepika Bharti	Indian institute of technology Delhi	Understanding the Role of Densification on the Solid-State Electrolytes for Solid-State Batteries	12/12/25
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