



3rd International Conference on Recent Advances in Nanoscience and Nanotechnology-2025 (ICRANN-2025)

December 20-21, 2025

Organized by

Special Centre for Nanoscience (SCNS)

Jawaharlal Nehru University (JNU), New Delhi-110067

Technical Session Schedule



ICRANN-2025
JNU

Special Centre for Nanoscience (SCNS)

Jawaharlal Nehru University (JNU), New Delhi-110067

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भारत सरकार
GOVERNMENT OF INDIA

विज्ञान और प्रौद्योगिकी मंत्रालय
MINISTRY OF SCIENCE AND TECHNOLOGY



जैवप्रौद्योगिकी विभाग
DEPARTMENT OF
BIOTECHNOLOGY

सत्यमेव जयते





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Day 1 Date: 20-12-2025

Oral Session-1

Time : 14:45 to 16:05

Date: 20-12-2025

Parallel Session I
Venue: Convention Centre, JNU

Track I: Physical Sciences

ID	Time Slot	Paper Title
OL-01-01	14:45-14:55	All printed electrochromic devices <i>Authors:</i> Hemant and Vipin Amoli
OL-01-02	14:55-15:05	Mechanically Robust, Stretchable Polymer for High-Performance Energy Harvester Triboelectric Nanogenerator <i>Authors:</i> Vishu Verma, Kaushik Parida
OL-01-03	15:05-15:15	Modulating the polymerization rate of dopamine: Effect on size, antioxidant activity, and antibacterial activity of zein-laponite-dopamine complexes <i>Authors:</i> Sara Dua, Sonam Gupta, Shama Parveen, Najmul Arfin
OL-01-04	15:15-15:25	Synthesis and fabrication of Ti3C2Tx MXene-ZnO nanosheet-based flexible Triboelectric nanogenerator <i>Authors:</i> Sheetal Sharma, Vinod Kumar Singh, Manoj Kumar Gupta
OL-01-05	15:25-15:35	Sulfur Quantum Dots as Visible-light-activated Antibacterial Agent <i>Authors:</i> Farwa Arshad, Md Palashuddin Sk
OL-01-06	15:55-16:05	Development of IOT-Enabled Robotic Platform for Lunar Soil and Subsurface Analysis <i>Authors:</i> Dr.Shubhro Chakrabartty and Dr. Debjani Dutta
OL-01-07	15:35-15:45	KINETICS OF PROTEIN NANOPARTICLE AGGREGATION AND SELF-ASSEMBLY <i>Authors:</i> Amishi, Himadri. B. Bohidar
		Study of dephasing in one and two-dimensional channels for a nanoscale device <i>Authors:</i> Amishi, Himadri. B. Bohidar



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Parallel Session 2

Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
OL-01-01	14:45-14:55	Enhanced removal of Benzo(a)pyrene from marine water under the guidance of Titanium dioxide nano particle <i>Authors:</i> Alakananda Chatterjee Banerjee, Dr. Mahua Ghosh Chaudhuri, Dr. Saswati Saha
OL-01-02	14:55-15:05	Designing a Genetically Encoded FRET Based Nanosensor for the Real time Monitoring of Heparin in Living Cells <i>Authors:</i> Sana Masroor and Mohd. Mohsin
OL-01-03	15:05-15:15	Enhanced Photodegradation of LDPE Using BiOCl ₂ ·xH ₂ O/ZnO Nanocomposites for Eco-Friendly Waste Management <i>Authors:</i> Dr. Bharat Kumar Allam
OL-01-04	15:15-15:25	Development of MoSe ₂ /PVA Based Wearable Dry Electrodes for Continuous ECG Monitoring <i>Authors:</i> Nevedhaa P, S. Arun Karthick
OL-01-05	15:25-15:35	Structural Analysis of Yttrium Aluminum Borate (YAB) Nanomaterials using low-cost non-traditional chemical method <i>Authors:</i> Aradhana, Rakesh Kumar Singh, Manoranjan kar, Abhay Kumar Aman, Bibhuti Bikramaditya
OL-01-06	15:35-15:45	Design and Synthesis of Magnetic Graphene Oxide for Oxidative Desulfurization of Liquid Fuels <i>Authors:</i> Melanny Desouza, Akash Zalke, Laxmi Gayatri Sorokhaibam
OL-01-07	15:45-15:55	DFT, molecular docking and GC-MS analysis of silver nanoparticles and copper oxide nanoparticles prepared from the combination of Capsicum annum and Eugenia caryophyllata targeting cancer matrix metalloproteinases (MMPs) and cathepsins <i>Authors:</i> Dr. Paratpar Sarkar, Dr. Mridula Guin and Dr. Vivek Srivastava
OL-01-08	15:55-16:05	Citrus limon-Assisted Gold Nanocoating on Cotton <i>Authors:</i> Savy Panamkuttiyiel Minal and Soam Prakash



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Day 2 Date: 21-12-2025

Oral Session-2

Time : 14:45 to 16:05

Date: 201-12-2025

Parallel Session I

Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
OL-02-01	14:45-14:55	KINETICS OF PROTEIN NANOPARTICLE AGGREGATION AND SELF-ASSEMBLY <i>Authors:</i> Amishi, Himadri. B. Bohidar
OL-02-02	14:55-15:05	Hydrophobic Aggregation of Nanoparticles of Biological Origin <i>Authors:</i> Neha V K and Himadri B Bohidar
OL-02-03	15:05-15:15	Translational Design of a Portable 2D MXene-DNA Nanohybrid Hydrogel-Based Biosensor for Rapid Point-of-Care Detection of Blood Disorder Biomarker <i>Authors:</i> Amit K. Yadav, Dhiraj Bhatia
OL-02-04	15:15-15:25	Synthesis of Phase Pure Nickel Telluride(s) <i>Authors:</i> Deevanshi Bhatt
OL-02-05	15:25-15:35	Comparative Structural, Morphological , Optical Studies on Europium Oxide (EuO) and Europium Sulphide (EuS) Thin Films Deposited via Spray Pyrolysis <i>Authors:</i> REKHA SHIVKUMAR BHALEKAR
OL-02-06	15:35-15:45	Nanoemulsion-based delivery system enhances the anticancer activity of pumpkin seed oil against prostate cancer <i>Authors:</i> Dr. Saima Wajid, Rupali Ghosh
OL-02-07	15:45-15:55	Cu₂S Quantum Dots-Based Fluorescent Nanosensor For Monitoring Nitrofurazone Residues In Food Products <i>Authors:</i> Kriti Novel, Reena K. Sajwan, G.B.V.S. Lakshmi, Partima R. Solanki



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Parallel Session II

Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
OL-02-01	14:45-14:55	Label-free WS2 Field Effect Transistor-based Genosensor for the Early Diagnosis of Prostate Cancer through Methylated gene <i>Authors:</i> Debashree Kar, Sumit Sharma, Samaresh Das and Prashant Mishra
OL-02-02	14:55-15:05	Engineering Metal-Doped Nanozymes for Site-Specific Prodrug Activation and Receptor-Mediated Uptake in Breast Cancer. <i>Authors:</i> Surbhi Chauhan, Prashant Mishra
OL-02-03	15:05-15:15	Design and synthesis of FA-tagged cubosomes as nanocarriers for the targeted delivery in triple-negative breast cancer <i>Authors:</i> Riya Rani, Prashant Mishra
OL-02-04	15:15-15:25	Design, Engineer and Evaluate Redox-responsive Carbon Nanodot-capped Pt-Mesoporous Janus Nanomotors for drug delivery and biosensing in Breast cancer cells <i>Authors:</i> Preetha Ganguly, Prashant Mishra
OL-02-05	15:25-15:35	Self-Assembled Nanocomposite of HKUST-1 and Laponite: Towards Hydrogel with High Mechanical Strength for Selective Dye Adsorption and Column Chromatographic Separation <i>Authors:</i> Anindita Chakraborty, Jyoti, Chhaya, Vinod Kumar
OL-02-06	15:35-15:45	Polycaprolactone particles as carriers of doxorubicin <i>Authors:</i> Kamil Rusztyn, Maciej Mazur
OL-02-07	15:45-15:55	Cu₂S Quantum Dots-Based Fluorescent Probe for Monitoring Nitrofurazone Residues in Food Samples <i>Authors:</i> Reena K. Sajwan, Kriti Novel, G.B.V.S. Lakshmi, and Pratima R. Solanki
OL-02-08	15:55-16:05	Study of dephasing in one and two-dimensional channels for a nanoscale device <i>Authors:</i> Bharti Dua and Niladri Sarkar



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Parallel Session II

Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
OL-02-01	14:45-14:55	Bovine serum albumin consolidated Carbenoxolone nanoparticles for Experimental Pulmonary Fibrosis <i>Authors:</i> Lakshmi Kanth Kotarkonda, Vijay Pal Singh and Subhashini Bharathala
OL-02-02	14:55-15:05	Carbon-based Nanomaterial's for Heavy Metal Remediation: Current Status and Future Prospects <i>Authors:</i> Dr. Kalpana Katiayr
OL-02-03	15:05-15:15	
OL-02-04	15:15-15:25	
OL-02-05	15:25-15:35	
OL-02-06	15:35-15:45	
OL-02-07	15:45-15:55	
OL-02-08	15:55-16:05	



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Track I: Physical Sciences

ID	Time Slot	Paper Title
PS-01-01	16:20-18:30	Green synthesis of pure and rare-earth doped ZnO nanoparticles for energy harvesting applications <i>Authors:</i> Vidit Verma and Binay Kumar
PS-01-02	16:20-18:30	Studies on Nanostructured Cu/W Bilayer System <i>Authors:</i> Sakshi Tyagi, Shilpa Thakur
PS-01-03	16:20-18:30	Energy Enhancement of a Nickel,àCobalt-Mixed Metallic Metal,àOrganic Framework Electrode and a Potassium Iodide Redox Mediator Bound with an Aqueous Electrolyte for High Performance Redox-Aided Asymmetric Supercapacitors <i>Authors:</i> Dr. S. Ganesan
PS-01-04	16:20-18:30	Flexible solid-state interdigitated micro supercapacitor based on activated carbon microfibers <i>Authors :</i> Mariyarathinam Vinoth Inbaraj, and Govindhan Maduraiveeran
PS-01-05	16:20-18:30	Phase Engineering of 1T-MoS₂ via Tungsten Doping and PEDOT:PSS for Binder-Free Cathodes in Coin Cell Asymmetric Supercapacitors <i>Authors:</i> Chandru Gunasekaran, Ganesan Shanmugam
PS-01-06	16:20-18:30	Structural, magnetic, and ferroelectric study on lead-free (1-x)[(0.5)Ba(Zr_{0.2}Ti_{0.8})O₃ (0.5)(Ba_{0.7}Ca_{0.3})TiO₃]-xHo] Ceramics <i>Authors:</i> Sahil Kumar, Sasmita Otta and Bhagaban kisan



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ID	Time Slot	Paper Title
PS-01-07	16:20-18:30	Green synthesis of multifunctional silver nanoparticles using synergistic plant extract combination for catalytic reduction and environmental remediation <i>Authors:</i> Manisha Yadav, Pankaj Thakur
PS-01-08	16:20-18:30	Modifications Induced in the Structural, Electronic, and Optical Properties of BiVO₄ using Gamma Irradiation for Electrochemical Application <i>Authors:</i> Shilpa Chauhan, Richa Saini, Thanigai Arul Kumaravelu, C.L. Dong, Asokan Kandasami
PS-01-09	16:20-18:30	Influence of sintering temperature on the structural, electrical, magnetic, and magnetoelectric properties of 70_BaTiO₃- 30_ Co(1+x)Ti_xFe₂(1-x)O₄ multiferroic composites <i>Authors:</i> Rajeev Dwivedi ¹ , D. K. Shukla ² , S. Gupta ¹
PS-01-10	16:20-18:30	Smart Plasmonic Sensors for Environmental Monitoring <i>Authors:</i> Bhumi Gupta, Dr. Rina Singh
PS-01-11	16:20-18:30	Binary nanocomposite of metal oxide-polymer based electrode material for supercapacitor application <i>Authors:</i> Jamal Uddin, Hema Bhardwaj, Pratima R. Solanki, Anju Dhillon, Azher M. Siddique
PS-01-12	16:20-18:30	IoT-Assisted rGO-In₂O₃ Nanocomposite Chemiresistive Sensor for High Performance Detection of Binary Gas Mixtures in Industrial Applications <i>Authors:</i> Tanya Sood, P. Poornesh



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ID	Time Slot	Paper Title
PS-01-13	16:20-18:30	Growth, characterization and electrochemical study of bismuth-doped strontium hydroxide thin films grown via SILAR method for supercapacitor applications <i>Authors: Jyoti Yadav , Satyendra Singh</i>
PS-01-14	16:20-18:30	Synthesis, structural, dielectric and ferroelectric properties of lead-free Sn doped AgNbO₃ antiferroelectric ceramics <i>Authors: Aayushi Singh and Satyendra Singh</i>
PS-01-15	16:20-18:30	Influence of Ca and Ti co-doping on the super capacitive performance of bismuth ferrite nanoparticles <i>Authors: Raina Nandal and Satyendra Singh</i>
PS-01-16	16:20-18:30	Structural, dielectric and energy storage performance of lead-free K_{0.5}Bi_{0.5}Ti_{1-x}(Zn^{1/3}Nb^{2/3})_xO₃ ceramics. <i>Authors: Utkarsh Gupta and Prof. Satyendra Singh</i>
PS-01-17	16:20-18:30	Investigation on structural, morphological and electrical properties of perovskites ceramics <i>Authors: Anil Kumar, Pooja Nehra, Satyendra Singh³</i>
PS-01-18	16:20-18:30	Comparative Study of 2D Material-Based TFETs for Ultra-Low Power Biomedical Sensing Applications <i>Authors: Mayurika Saxena, Dhandapani Vaithiyathan, Manish Verma</i>



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ID	Time Slot	Paper Title
PS-01-19	16:20-18:30	Design of Split Ring Resonator srr Patch Antenna With Graphene Material For THz communication <i>Authors:</i> Anuj kumar, Dr. Sandeep kumar, Prof. Ketavath Kumar Naik
PS-01-20	16:20-18:30	Design of a compact slits patch antenna with quantum material Graphene for 6G communication. <i>Authors:</i> Ganesh shankar Vidyarthi , Dr. Sandeep kumar, Prof. Ketavath Kumar Naik
PS-01-21	16:20-18:30	
PS-01-22	16:20-18:30	
PS-01-23	16:20-18:30	
PS-01-24	16:20-18:30	



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Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
PS-01-01	16:20-18:30	Rare earth doped tungsten trioxide as a photocatalyst for the abatement of dye pollutants in water <i>Authors:</i> Pooja Nehra, Anupama, Anil Kumar, Satyendra Singh
PS-01-02	16:20-18:30	Assessment and Remediation of Heavy Metal Contamination in Groundwater Using Graphene Oxide <i>Authors:</i> Shakebul Hasan, Venus Dillu
PS-01-03	16:20-18:30	Study of Langmuir monolayers of magnetic nanoparticles <i>Authors :</i> Pavitrakumar Sarang and V. N. Lad
PS-01-04	16:20-18:30	Arginine accelerates the fibrillation of TDP-43 low complexity domain <i>Authors:</i> Neha and Prof. Rajesh Mishra NEHA
PS-01-05	16:20-18:30	Application of magnetic nanoparticles in biomedicine <i>Authors:</i> Archana, Ishaan Pershad, Riya Mehta, Megha Pant, Kapil Dev, Ajit K. Mahapatro, Susmita Saha
PS-01-06	16:20-18:30	Investigation of Magnetic Properties in Ultrathin α-CoFeB Films <i>Authors:</i> Baisali Ghadai, Kirti Kirti, Abinash Mishra, Sucheta Mondal
PS-01-07	16:20-18:30	Nano-silver doped CdTe Quantum dots and their applications. <i>Authors:</i> Tuhina Chakravarty , PK Khanna
PS-01-08	16:20-18:30	Fabrication of Bismuth-based nanocomposite as a dual functional material: Efficient iodine capture and photocatalytic hydrogen production <i>Authors:</i> Zainab Zahid, Azam Raza, Suzain, Mohtaram Danish, Wan K Jo, Dong eun Lee, Kaseed Anwar



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Track II: Chemical and Biological Sciences

Venue: Convention Centre, JNU

ID	Time Slot	Paper Title
PS-01-09	16:20-18:30	Eco-Friendly Synthesis and Comprehensive Evaluation of Terminalia bellirica Leaf,ÄiMediated Silver Nanoparticles for Antimalarial Applications <i>Authors:</i> Dr.Tarun Kumar Bhatt, Sujeet Singh, Dr. Surendra NImesh
PS-01-10	16:20-18:30	Elucidating Nano“Cell Interactions via Advanced Imaging and Omics: Implications for Precision Nanomedicine <i>Authors:</i> Sania YasminÄ¹, Suneel KateriyaÄ² and Subhash C.Yadav
PS-01-11	16:20-18:30	Microwave-assisted one-pot Synthesis of Zn Carbon quantum dots and their application for the degradation of methylene blue dye and moxifloxacin antibiotic <i>Authors:</i> Zimad Hashmi, Amit Ahlawat, Reena K.Sajwan, Pratima Solanki
PS-01-12	16:20-18:30	Fe3O4/Zr-BDC binary magnetic nanocomposite for efficient adsorption and magnetic removal of Congo red azo dye and its effect on Cicer arietinum germination <i>Authors:</i> Rinku Nayak, Archana, Janhavi Manu, Amit Ahlawat, Zimad Hashmi, Anees Ahmed Ansari, Pratima R. Solanki
PS-01-13	16:20-18:30	Multiplexed impedimetric zinc oxide modified aptasensor on carbon ink inscribed paper electrodes for the specific and sensitive co detection of Alzheimer and Parkinson disease <i>Authors:</i> Saumitra Singh, Osheen Ansari, Anam Ayaz and Jagriti Narang
PS-01-14	16:20-18:30	A Theranostic Mn,ÄiAu,ÄiDendrimer Platform for MMP-1,ÄiMediated Drug Delivery and Imaging <i>Authors:</i> Dr. Sejal Rathod*, Shivani Bhawe, Dr.Akhilesh Prajapati
PS-01-15	16:20-18:30	Sustainable Silver Nanoparticles Synthesized from Portulaca oleracea for Advanced Chromosomal Diagnostics <i>Authors:</i> R Chithra I, Ojasvi Brahme I, Vidhu Sankar Babu
PS-01-16	16:20-18:30	A Novel Green Synthesis of Fe@Ag Core-Shell Magnetic Nanoparticles and their Antibacterial Evaluation <i>Authors:</i> Shifa Shaikh(1), Saurabh Pandey(1)*, Kamla Rawat(2)



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Track II: Chemical and Biological Sciences

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ID	Time Slot	Paper Title
PS-01-17	16:20-18:30	Integrated assessment of groundwater potential zones and artificial recharge sites using GIS and Fuzzy, AHP: a case study in Keonjhar District, Odisha, India <i>Authors:</i> Bijaya Kumar Sethi, Biswajit Patra, Surya Narayan Pradhan
PS-01-18	16:20-18:30	Biomass-Derived Carbon Dots: Dual Therapeutic and Diagnostic Nanomaterials Against MDR Fungal Pathogens <i>Authors:</i> Vartika Joshi, Preeti Chand, Abhinav Abhinav, Tulika Prasad and Neha Paras
PS-01-19	16:20-18:30	Development of Nanocomposite-Based formulation against Drug-Resistant Fungal Biofilms <i>Authors:</i> Janhavi Manu, Preeti Chand and Tulika Prasad
PS-01-20	16:20-18:30	Facile Solvothermal Synthesis of Green Emissive Carbon Quantum Dots: In vitro Microbial Nano imaging agent <i>Authors:</i> Abhinav Abhinav, Preeti Chand, Vartika Joshi, Neha Paras and Tulika Prasad
PS-01-21	16:20-18:30	Dual-Function Nucleic Acid-based Carbon Dots: Drug Nanocarrier and Multimodal Contrast Agent <i>Authors:</i> Megha Malik, S. Sharma, P. Chand, A. Kumari, P. Mishra and T. Prasad
PS-01-22	16:20-18:30	Synthesis and Characterization of Biopolymer stabilized Silver Nanoparticles for Electrochemical Vitamin D3 detection <i>Authors:</i> Nisha, Hema Bhardwaj, Sakshi Rai and Pratima R. Solanki
PS-01-23	16:20-18:30	Microwave-Assisted Fabrication of Nitrogen and Sulfur Co-Doped Carbon Quantum Dots with Enhanced Photoluminescence Efficiency <i>Authors:</i> Fareen Zaidi and Tulika Prasad
PS-01-24	16:20-18:30	Amino Acid-Derived Carbon Quantum Dots as Fluorescent Probes for Bioimaging: A Hydrothermal Approach <i>Authors:</i> Danish Hussain, Itika Varshney, Megha Malik, Tulika Prasad and Pankaj Thakur



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ID	Time Slot	Paper Title
PS-01-25	16:20-18:30	Synthesis and Biomedical Applications of Carbon Dots for Combating Bacterial Disease <i>Authors:</i> Husnara Bano, Saurabh Pandey, Kamla Rawt
PS-01-26	16:20-18:30	Comparative Evaluation of Nucleic Acid- and Amino Acid-Derived Carbon Quantum Dots: Cytocompatibility, Microbial Toxicity and Imaging Applications <i>Authors:</i> Vimal Kumar, Megha Malik, Anam Rais, Prashant Mishra, Tulika Prasad, Pankaj Thakur
PS-01-27	16:20-18:30	Blue-Emissive Zein Carbon Quantum Dots: A Green Nanoprobe for Imaging Mycobacteria and Immune Cell Lines <i>Authors:</i> Itika Varshney, Preetha Ganguly, Prashant Mishra and Tulika Prasad
PS-01-28	16:20-18:30	A modified rice straw-based nanocellulose for the removal of ciprofloxacin and norfloxacin from wastewater: Isotherm and kinetic studies <i>Authors:</i> Garima Bhatnagar, Brij Bhushan and Arunima Nayak
PS-01-29	16:20-18:30	Valorisation of wheat straw to a green, biogenic composite adsorbent for removal of pharmaceuticals from wastewater <i>Authors:</i> Anshika Chauhan, Brij Bhushan and Arunima Nayak
PS-01-30	16:20-18:30	Identification of Prognostic Hub Genes and Evaluation of Nanoformulated Combination Therapy in Ovarian Cancer <i>Authors:</i> Nagma Moin and Ravi Verma
PS-01-31	16:20-18:30	Rice husk-based nanosorbent for the removal of ciprofloxacin and norfloxacin from wastewater: Isotherm and kinetic studies <i>Authors:</i> Deepika Kashyap, Arunima Nayak and Brij Bhushan
PS-01-32	16:20-18:30	