

Theme Wise Programme
Oral Sessions

DETAILED PROGRAMME

1. Theme: Bio-nanomaterials

Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LH 01

14:30-14:50 Invited Talk (1)	Sneh Gautam Narayan Chandra Mishra	Bio NT_150-ICN3I Surface Functionalization of PCL/ Gelatin/ Chitosan Nanofibrous Composite Scaffold by Nano-Hydroxyapatite for Bone Regeneration
14:50-15:00 Oral (1)	Swaroop Chakraborty Superb K. Misra	Bio NT_36-ICN3I Multi-method approach to evaluate the dissolution of engineered nanoparticles in a range of simulated environment
15:00-15:10 Oral (2)	Tamanna Bhuyan Amit Kumar Singh Deepanjalee Dutta Aynur Unal Siddhartha Sankar Ghosh Dipankar Bandyopadhyay	Bio NT_149-ICN3I Chemo-Magnetotactic Mushroom tissue-based Microbots for Antitumor Drug delivery
15:10-15:20 Oral (3)	Saurabh Yadav	Bio NT_195-ICN3I Role of IPR in Biotechnology
15:20-15:30 Oral (4)	R. Rachana Manisha Singh Tanya Gupta	Bio NT_211-ICN3I Natural products and cancer therapeutics
15:30-15:40 Oral (5)	Shivaji Kashte R. K. Sharma Sachin Kadam	Bio NT_243-ICN3I Decorated Graphene Flakes Scaffolds With Improved Biocompatibility And Mechanical Properties For Bone Tissue Engineering
15:40-15:50 Oral (6)	Ramneek Kaur S.P. Singh Manisha Singh	Bio NT_248-ICN3I Cytotoxicity and oxidative stress analysis of Graphene Oxide (GO) Nanocomposites on neural cell line (N _{2a})

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Session II : 16:30-17:30, Venue – LH 01

16:30-16:50 Invited Talk (2)	Dipak Maity Anindita Chakraborty Kalawati Saini S N Kale Ding Jun	Bio NT_678-ICN3I Surface Functionalized and Polymeric Encapsulated Superparamagnetic Iron Oxide Nanoparticles for Cancer Theranostics
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16:50-17:00 Oral (7)	Chumki Dalal Nikhil Ranjan Jana	Bio NT_54-ICN3I Multivalency Effect of Nanobioconjugate in Cellular Entry/Exit Mechanism and Subcellular Trafficking
17:00-17:10 Oral (8)	Sonali Saha M.M. Malik M.S. Qureshi	Bio NT_293-ICN3I Study of Synergistic Effects of Antibiotics and Triangular Shaped silver nanoparticles, Synthesized using UV-Light Irradiation, on <i>S. Aureus</i> and <i>P. Aeruginosa</i>
17:10-17:20 Oral (9)	Neena G. Shetake Amit Kumar B. N. Pandey	Bio NT_309-ICN3I Iron oxide nanoparticles target intracellular HSP90 to induce tumor radio-sensitization
17:20-17:30 Oral (10)	Vijaya D. Giramkar Girish J. Phatak S. G. Sabharwal	Bio NT_813-ICN3I Immobilization studies of alkaline phosphatase isolated from ' <i>Arachis hypogaea</i> ' adsorbed on surface of CNTs

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Session III : 14:30-16:00, Venue – LH 02

14:30-14:50 Invited Talk (3)	Malay Kumar Rana	Bio NT_384-ICN3I Material discovery for gas capture and disease diagnosis
14:50-15:00 Oral (11)	Syed Md Humayun Akhter Zafar Mahmood Shamim Ahmad Faiz Mohammad	Bio NT_255-ICN3I Green Synthesis of CuO and ZnO nanoparticles using aqueous and alcoholic extracts of <i>Swertia chiriyita</i> and the antibacterial efficacy of nanoparticles against Gram-positive and Gram-negative bacteria
15:00-15:10 Oral (12)	Shweta Rajawat M. M. Malik	Bio NT_267-ICN3I Anticancer Activity of Green Silver Nanoparticles against He-La Cervical Cancer Cell Lines
15:10-15:20 Oral (13)	Aparajita Basu Ananya Mishra Divya Maheshwari Shruti Gupta Shubham Saxena Amaresh Kumar Sahoo Sintu Kumar Samanta	Bio NT_269-ICN3I Synthesis of Nanocomposite of Copper nanoparticles and Carbon Quantum Dots as an antibacterial gel
15:20-15:30 Oral (14)	Surojit Ranoo B. B. Lahiri T. Muthukumaran John Philip	Bio NT_271-ICN3I Magnetically triggered heating in water based phosphate coated cobalt ferrite ferrofluid for cancer therapy

15:30-15:40 Oral (15)	Anjana Goel Hari Om Gupta A. K. Bhatia	Bio NT_280-ICN3I Biogenic Nanoparticles for effective Cancer treatment: A review
15:40-15:50 Oral (16)	Asha H. Gedam Rajendra S. Dongre	Bio NT_285-ICN3I Synthesis and characterization of sponge gourd derived biochar and activated carbon for bio-sorption of Pb (II) ions

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Session IV : 16:30-17:30, Venue – LH 02

16:30-16:50 Invited Talk (4)	D. Chakraborty G. N. Patey	Bio NT_225-ICN3I Mechanism of Crystallisation : An overview from ions to protein crystallization
16:50-17:00 Oral (17)	S. Ram Kumar Pandian D. Anjanei K.Sundar	Bio NT_400-ICN3I Immunomodulatory and anti-cancer effects of PEGylated silver nanoparticles synthesized by <i>Sesbania aegyptiaca</i> plant extract
17:00-17:10 Oral (18)	Shachi Pranjal Vyas Ritobrata Goswami	Bio NT_406-ICN3I Gold nanoparticles downregulate inflammation by attenuating Toll-like receptor 4 signaling pathway in lung adenocarcinoma cells
17:10-17:20 Oral (19)	R. Sankaranarayanan S. Shailajha D.Danielraj C. Parvathiraja M.S. Kairon Mubina	Bio NT_443-ICN3I <i>Carica Papaya</i> Leaf Extract Mediated Green Synthesis of Silver Nanoparticles and its Characterization
17:20-17:30 Oral (20)	Diptipriya Sethi Ramasamy Sakthivel	Bio NT_822-ICN3I Titania from ilmenite:- a photocatalyst for annihilation of <i>E. coli</i>

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Session V : 10:00-11:00, Venue – LH 01

10:00-10:20 Invited Talk (5)	Kalawati Saini Nutan Rani Smriti Sharma Bhatia Ekta Divya Mahajan Swati Jain Amishi Tiwari	Bio NT_483-ICN3I Green Synthesis of ZnO Nanoparticles by using Jasminum and Allium Cepa and their Photocatalytic and Anti-bacterial activity
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10:20-10:30 Oral (21)	Ganeshlenin Kandasamy Atul Sudame Dipak Maity	Bio NT_218-ICN3I Superparamagnetic Iron Oxide Nanoparticles/Curcumin Loaded TPGS/F127 Mixed Micelles for Cancer Therapeutics
10:30-10:40 Oral (22)	Vedashree Sirdeshmukh Shreeram Joglekar Prashant Alegaonkar Preeti Nigam Anup Kale	Bio NT_817-ICN3I Graphene gold nanocomposites for highly sensitive electrochemical detection of <i>E coli</i> and <i>S aureus</i> in less than one hour
10:40-10:50 Oral (23)	Prathap S Subhankar Paul	Bio NT_890-ICN3I Casein nanoparticle as smart pH responsive drug delivery system for cancer

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Session VI : 11:30-13:00, Venue – LH 01

11:30-11:50 Invited Talk (6)	Bhagyashree Korde Shashwati Wankar Samidha Fule Reddithota J. Krupadam	Bio NT_350-ICN3I Biomimetic Polymer for Capture and Release of Drug Amygdalin from Aqueous Media
11:50-12:00 Oral (24)	Deepika Pancholi Veena Pande Anirban Dandapat	Bio NT_510-ICN3I Development of Silver Nanoparticles Incorporated Bismuth Oxyhalides Solid Solutions ($\text{BiOBr}_x\text{I}_{1-x}$) with Enhanced Photocatalytic and Antibacterial Properties
12:00-12:10 Oral (25)	Anika Guliani Amitabha Acharya	Bio NT_522-ICN3I Effect of Surfactants on Essential Oil Nano-emulsion Formation and their Antibacterial Efficacy Studies
12:10-12:20 Oral (26)	Soumyashree Dhal Supratim Giri	Bio NT_551-ICN3I Development of colon specific drug delivery system using natural carbohydrate polymer capped, photoluminescent mesoporous silica nanoparticle
12:20-12:30 Oral (27)	Bhawana Bisht Veena Pande Anirban Dandapat	Bio NT_555-ICN3I A Single Step Green Approach to Synthesize Highly Uniform Anisotropic Au Nanostructures
12:30-12:40 Oral (28)	Niloy Chatterjee Pubali Dhar	Bio NT_561-ICN3I Application of green technology for the fabrication of biogenic flavonoid coated silver nanoparticles

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Session VII : 14:30-16:00, Venue – LH 01

14:30-14:40 Oral (29)	Santosh Kumari Bhupender Malik Sapna Grewal Meenakshi Mehra Jyoti Sheorain	Bio NT_624-ICN3I Green Synthesis, Characterization and Antibacterial Activity of Silver Nanoparticles from Wheat Straw: Waste to Wealth
14:40-14:50 Oral (30)	Mukti Sharma Saurabh Yadav M.M.Srivastava N. Ganesh Shalini Srivastava	Bio NT_639-ICN3I Green Nanotechnological Enhancement in Anti-inflammatory bioefficacy of <i>Madhuca longifolia</i> seed extract in carrageenan induced paw edema in <i>Swiss albino</i> mice model
14:50-15:00 Oral (31)	Gurpreet kour S. C. Sati	Bio NT_643-ICN3I Leaf Mediated Green Synthesis of Zinc oxide nanoparticles and study of its antioxidant and antiinflammatory properties
15:00-15:10 Oral (32)	Pratik Das Kishor Sarkar	Bio NT_654-ICN3I Green Synthesis of Efficient Silver Nanoparticle based Non-viral Vector for Cancer Gene Therapy
15:10-15:20 Oral (33)	Navya Mathur Sanchita Bandyopadhyay Ghosh Subrata Bandhu Ghosh	Bio NT_704-ICN3I Poly (vinyl) Alcohol based Novel Injectable Nanocomposite Hydrogel for Bone Tissue Augmentation and Repair

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Session VIII : 16:30-17:30, Venue – LH 01

16:30-16:50 Invited Talk (7)	Sanat Karmakar Pabitra Maity Animesh Halder	Bio NT_403-ICN3I Antimicrobial Peptides: An Emerging Therapeutic Agents for the Replacement of antibiotics: A Study with Phospholipid Membranes
16:50-17:00 Oral (34)	Swarnab Sengupta Arindam Bhattacharjee	Bio NT_484-ICN3I Characterizing the nitrosative stress on alcohol fermentation in <i>Saccharomyces cerevisiae</i>
17:00-17:10 Oral (35)	G S S Adithya Geetanjali Awale Sanchita Bandyopadhyay- Ghosh Subrata Bandhu Ghosh	Bio NT_742-ICN3I Magnesium based Nanocomposite Foam with Controlled Degradation for Orthopaedic Applications

17:10-17:20 Oral (36)	Prashant Agnihotri Kirti Agrahari Rayavarapu Raja Gopal	Bio NT_745-ICN3I Anisotropic Plasmonic Metal Nanostructures of Gold and Silver: Synthesis, Characterization and <i>In vitro</i> Cytotoxic Response in Human Liver Carcinoma Cell Line
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Session IX : 10:00-11:00, Venue – LH 02

10:00-10:20 Invited Talk (8)	Sarat K Swain	Bio NT_375-ICN3I Polysaccharide based nanohydrogels as promising vehicle for oral delivery of antibiotics
10:20-10:30 Oral (37)	Garima Jain P. Jeevanandam Partha Roy	Bio NT_827-ICN3I Synthesis and Characterization of MgO-Al ₂ O ₃ -Ag Ternary Nanocomposites for Antibacterial Activity
10:30-10:40 Oral (38)	Saba Naqvi P. Gopinath	Bio NT_832-ICN3I Calcium phosphate nanocarriers for cancer gene therapy
10:40-10:50 Oral (39)	Mukta Singh Swati Dubey Jyoti Singh R P Singh	Bio NT_842-ICN3I Curcumin loaded PHEMA nanoparticles modified with chitosan for enhanced and prolonged drug delivery

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Session X : 11:30-13:00, Venue – LH 02

11:30-11:50 Invited Talk (9)	Tuhin Subhra Santra	Bio NT_196-ICN3I Single Cell Nano-Electroporation to Laser Induced Phototoporation: Novel Approaches for Cell Therapy and Diagnostics
11:50-12:00 Oral (40)	R. Balakrishnaraja V. N. Logesh S. K. Dhinesh Kannan V. Ranjith P. Praveen Kumar	Bio NT_57-ICN3I Identification and Characterization of latent golden hues from the Gomutra (Cow Urine) of <i>Bos indicus</i>
12:00-12:10 Oral (41)	Manoj Kumar Singh Sunny Zafar	Bio NT_144-ICN3I Development of porous bio-nanocomposites through microwave curing for bone tissue engineering

12:10-12:20 Oral (42)	Mayank Kumar Singh Deep Pooja Hitesh Kulhari Ramakrishna Sistla Abhay S. Chauhan	Bio NT_1097-ICN3I Innovative Approach of Hybrid Poly (amidoamine) Dendrimers for Precise Delivery of Docetaxel
12:20-12:30 Oral (43)	Laxmi Devi Rishikesh Gupta Mukul Pastor Sanjay K. Jain	Bio NT_1112-ICN3I Synthesis and Physicochemical Characterizations of Natural Polysaccharide Based Colloidal Gold Nanoparticles as Drug Delivery Carrier for Breast Cancer
12:30-12:40 Oral (44)	Awadhesh Kumar Verma Abhilash Jayaraj Shashank Deep Z. A. Ansari	Bio NT_1135-ICN3I Insilco Study of Interaction of (ZnO) ₁₂ Quantum Cluster-Glucose Oxidase; a nano-bio-conjugate

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Session XI : 14:30-16:00, Venue – LH 02

14:30-14:50 Invited Talk (10)	Muthu Arumugam	Bio NT_117-ICN3I Single cell lipid profiling of <i>Scenedesmus quadricauda</i> CASA-CC202 using Gold nanoparticle assisted Surface Enhanced Raman Scattering (SERS) Fingerprinting
14:50-15:00 Oral (45)	Shouvik Mahanty Madhurima Bakshi Somdeep Ghosh Subarna Bhattacharya Punarbasu Chaudhuri	Bio NT_611-ICN3I Mycosynthesis and characterisation of iron nano particle by <i>Trichoderma</i> sp. isolated from Indian Sunderban
15:00-15:10 Oral (46)	Preeti Tomer Saugata Hazra	Bio NT_733-ICN3I Isolation & Characterization of Biodegradable Plastic Polymer from Dairy Sludge Waste
15:10-15:20 Oral (47)	Shiva Sharma Jayanand Manjhi D. V. Rai Manisha Rastogi	Bio NT_883-ICN3I Cytotoxic potential of Green Synthesized Silver Nanoparticles Using Different Mukhi Rudraksha in Breast Cancer Cell Line
15:20-15:30 Oral (48)	Rima Saha Kishor Sarkar	Bio NT_904-ICN3I Recycled waste poly(ethyleneterephthalate) derived novel polyester/nano hydroxyapatite composite for Bone Regeneration

15:30-15:40 Oral (49)	K. Prasad Anal K Jha	Bio NT_1064-ICN3I Nanomaterials From Biological And Pharmaceutical Wastes – Step Towards Environmental Protection
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Session XII : 16:30-17:30, Venue – LH 02

16:30-16:50 Invited Talk (11)	Tejashree Mahaddalkar Sourabh Mehta Harries Muthurajan Manu Lopus	Bio NT_62-ICN3I Tryptone-stabilized gold nanoparticles target tubulin and inhibit cell viability by inducing an unusual form of cell cycle arrest
16:50-17:00 Oral(50)	Monalisa Mohanty Bhabani S. Jena	Bio NT_843-ICN3I Biosynthesis of silver nanoparticles by using ethanolic bark extract of <i>Terminalia bellerica</i>
17:00-17:10 Oral (51)	Vandana Gupta Sachin Tyagi	Bio NT_851-ICN3I Development of Biocompatible Zirconium- dicarboxylate Metal Organic Framework for Drug Delivery Application
17:10-17:20 Oral (52)	Kapender Phogat Sanchita Bandyopadhyay- Ghosh	Bio NT_867-ICN3I Novel Bio-nanocomposite Hydrogel as Injectable Scaffold for Hard Tissue Regeneration

Friday : 08-12-2017

Session XIII : 09:00-11:00, Venue – LHC 001

09:00-09:20 Invited Talk (12)	Sushama Talegaonkar Purnima	Bio NT_658-ICN3I Design and development of hydroxyapatite- PLGA nanoconjugates of Pamidronate for synergistic treatment of osteoporosis
09:20-09:30 Oral (53)	Vijay Shankar Kumawat Sanchita Bandyopadhyay- Ghosh Subrata Bandhu Ghosh	Bio NT_874-ICN3I Mechanical and Tribological Properties of Novel Fluorcanasite-based Biocomposite Bone Scaffold
09:30-09:40 Oral (54)	Gourav Kumar Manik Ghosh Dev Mani Pandey	Bio NT_906-ICN3I Toxicity evaluation of GNPs produced by varying synthesis parameters
09:40-09:50 Oral (55)	G. Parimala Devi Nagendra Babu Bathini Chella Naveen	Bio NT_911-ICN3I Solid Lipid Nanoparticles as a tool for the Co- Delivery of Anti-Cancer Agents to overcome the Multidrug Resistance

09:50-10:00 Oral (56)	Iram Khan Yasmin Sultana	Bio NT_959-ICN3I Development And Evaluation Of Nanofibres For The Targetted Release Of Anti Tumor Drug To Treat Glioblastoma Tumors
10:00-10:10 Oral (57)	Varun Saxena Lalit M. Pandey	Bio NT_981-ICN3I Synthesis, characterization and antibacterial activity of Aluminum doped zinc Oxide
10:10-10:20 Oral (58)	Deepa Garg Saugata Hazra	Bio NT_1057-ICN3I Biosynthesis of bioplastic Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Bacillus</i> sp. C1 utilising mango peel waste
10:20-10:30 Oral (59)	Dindyal Mandal Sourav Mishra Rohit Kumar Singh	Bio NT_1085-ICN3I Peptide generated metal nanoparticles and their biomedical activity

2. Theme: Computational Nanotechnology

Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LHC 005

14:30-14:50 Invited Talk (1)	Neha Mishra Ashwini Sood	Comp. Nano_390-ICN3I Modeling of methyl methacrylate emulsion polymerization in a semi-batch reactor
14:50-15:10 Invited Talk (2)	Mukesh P Joshi	Comp. Nano_204-ICN3I Charge Transport Properties of Polymer-Nanoparticle Composite Thin Films: Experiment and Simulation Studies
15:10-15:20 Oral (1)	Charulatha B S Nixon Sindhu Rajan Arun RajaRaman	Comp. Nano_61-ICN3I SEM Image Analysis of Epoxy- Multiwall Carbon Nano-Tubes Using Matlab
15:20-15:30 Oral (2)	Arjyajyoti Goswami Aravindan S P V Rao	Comp. Nano_407-ICN3I Simulation and Experimental Characterization of Nanograting Array for Reflectance Reduction in c-Si
15:30-15:40 Oral (3)	Monika Tyagi Ayub Khan Mushahid Husain Samina Husain	Comp. Nano_458-ICN3I Dynamical Solutions of the non-linear vibration of single walled carbon nanotube embedded in viscous elastic matrix using Krylov Bogoliubov and Mitropolsky method
15:40-15:50 Oral (4)	Ashwani Assam Nikhil Narayan Kalkote Nishanth Dongari Vinayak Eswaran	Comp. Nano_498-ICN3I Computation of Rarefied Gas Flows in Nano/micro Devices using an Indigeneous developed Computational Fluid Dynamics Solver
15:50-16:00 Oral (5)	Sapna Bondwal Pompozhi P. Thankachan Pallavi Debnath	Comp. Nano_604-ICN3I Nature of Transition in model Silicon Quantum Dots: Computational Study

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Session II : 16:30-17:30, Venue – LHC 005

16:30-16:50 Invited Talk (3)	C. N. Patra	Comp. Nano_413-ICN3I Nano Building Blocks to Advanced Materials: A Multi-scale Modeling Strategy
16:50-17:00 Oral (6)	Agniswami Behera Madan Mohan Ghosh	Comp. Nano_410-ICN3I Study on Radiation Damage of Nanosized Metallic Single Crystals Using Molecular Dynamics

17:00-17:10 Oral (7)	Praveen Kumar Piyush Pratap Singh Md. Sikandar Azam	Comp. Nano_633-ICN3I Effect of nonlocal parameter, aspect ratio and boundary condition on natural frequency of functionally graded nano plate using Rayleigh-Ritz method
17:10-17:20 Oral (8)	Rahul Agarwal Piyush Pratap Singh Md. Sikandar Azam	Comp. Nano_635-ICN3I Free vibration of Levy nanoplate resting on Winkler foundation using Rayleigh Ritz method
17:20-17:30 Oral (9)	Sanu Kumar Vivek Bajpai	Comp. Nano_651-ICN3I FE modelling of Ti ₆ Al ₄ V at microstructure level to predict macro level mechanical behaviour.

Thursday : 07-12-2017

Session III : 10:00-11:00, Venue – LHC 103

10:00-10:20 Invited Talk (4)	Sudhanshu Sharma K. B. Sravan Kumar Yash M. Chandnani V. Sai Phani Kumar Bhanu P. Gangwar Aditi Singhal Parag A. Deshpande	Comp. Nano_449-ICN3I Mechanistic Insights into CO ₂ Methanation over Nano-Ru-Substituted CeO ₂
10:20-10:30 Oral (10)	Arpita Das Showmen Saha Dibyendu Bhowmik	Comp. Nano_660-ICN3I Analytical Simulation of Nanocomposite Cementitious Materials With Carbon Nano Fiber (CNFs)
10:30-10:40 Oral (11)	Dharmendra Kumar Anupam Sahu Sneha Sharma Jitendra Kumar	Comp. Nano_671-ICN3I Light Emission Polarisation Control in Quantum Dot Vertical Cavity Surface emitting Laser (QD VCSELs)
10:40-10:50 Oral (12)	Avinash Kumar Shubham Sharma Chirodeep Bakli	Comp. Nano_1055-ICN3I Multiscale Modelling of Contact Line Dynamics on Substrates with Varying Roughness and Wettability

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Session IV : 11:30-13:00, Venue – LHC 103

11:30-11:50 Invited Talk (5)	Neha Khatri Suman Tewary Harry Garg Vinod Karar	Comp. Nano_618-ICN3I Identification & Quantification of Surface Defects in Diamond Turning of Silicon: An Image Processing Approach
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11:50-12:10 Invited Talk (6)	Debesh R. Roy	Comp. Nano_728-ICN3I Developing Smart Materials from Atomic Clusters: A Unique Approach
12:10-12:20 Oral (13)	Shikha Saini Pooja Basera Debalaya Sarker Saswata Bhattacharya	Comp. Nano_748-ICN3I Thermodynamic stability and electronic structure of complex metal – oxide ($TM_xMg_yO_z$) clusters
12:20-12:30 Oral (14)	Deepak Gupta Vivek Kumar	Comp. Nano_777-ICN3I Optimization of optical absorption in PTB7:PC71BM coated silicon nanowire array
12:30-12:40 Oral (15)	Rajesh O. Sharma Lalit K. Saini Bhagwati P. Bahuguna	Comp. Nano_917-ICN3I A diffusion Monte Carlo Study of Different Spin Configurations of Electron-Hole Bilayer system
12:40-12:50 Oral (16)	Swati Mohapatra Vivek Jhungare Saugata Hazra	Comp. Nano_1125-ICN3I Molecular machine behind development of multiple green plastic using a single microorganism

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Session V : 14:30-16:00, Venue – LHC 103

14:30-14:50 Invited Talk (7)	Sebin Philip Vinod Belwanshi Anita Topkar	Comp. Nano_412-ICN3I Design, fabrication and characterization of a comb type capacitive accelerometer
14:50-15:00 Oral (17)	Saurabh Chaudhury Debashish Dash	Comp. Nano_40-ICN3I A Density Functional Theory based Analysis on the Structural, Electronic, and Mechanical Properties of Cubic TiO_2
15:00-15:10 Oral (18)	Md Irfan Ansari Abhay Kumar Chaubey Ajay Kumar Anupam Chakrabarti S.S. Mishra	Comp. Nano_46-ICN3I Analysis of functionally graded carbon nanotube-reinforced laminates
15:10-15:20 Oral (19)	Sajjad Seifoori	Comp. Nano_105-ICN3I Impact and vibration response of Multi-layered graphene sheets under different striker based on molecular dynamics
15:20-15:30 Oral (20)	Biswajit Mohanty N. S. Venkataramanan	Comp. Nano_125-ICN3I Hydrogen storage in alkali -metal cation (Li^+ , Na^+ , K^+ , and Cs^+) decorated organic molecules: from computational insight
15:30-15:40 Oral (21)	Mohsen Mirzaei Hossein K. Rafsanjani	Comp. Nano_216-ICN3I A New Algorithm for Enhancement of Nano particles in TEM Images with an Uneven Background

15:30-15:40 Oral (22)	Pooja Basera Shikha Saini Saswata Bhattacharya	Comp. Nano_716-ICN3I Unraveling the role of oxygen vacancy and substitutional defects in modulating the electronic structure TiO ₂
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3. Theme : Synthesis and Characterizations

Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LHC 001

14:30-14:50 Invited Talk (1)	J. Chakraborty	Syn. & Char._457-ICN3I Nanostructured thin films: Microstructure and thermodynamics
14:50-15:00 Oral (1)	Gopal Avashthi Shrikant S. Maktedar Man Singh	Syn. & Char. 3-ICN3I Exploring N-doped Edge Functionalized Graphene Oxide through Near Edge X-ray Fine Absorption Spectroscopy
15:00-15:10 Oral (2)	Nityananda Agasti Maxwell A. Astle Graham A. Rance Andrei N. Khlobystov	Syn. & Char._167-ICN3I Confinement of CeO ₂ nanoparticles inside hollow carbon nanostructures: a new class of one-dimensional material for catalysis
15:10-15:20 Oral (3)	Umashankar Tripathi Sujith S.V Nav Rattan Rahul S. Mulik	Syn. & Char._179-ICN3I Experimental Investigation of the Effect of B4C Particulate Reinforcement in Aluminium Alloy 7075 by Stir Casting
15:20-15:30 Oral (4)	Uma Rani Sharma Neeraj Sharma Neera Sharma	Syn. & Char._192-ICN3I Green Synthesis and Characterization of Chromium Oxide Nanoparticles
15:30-15:40 Oral (5)	Manjodh Kaur C. M. Nagaraja	Syn. & Char._197-ICN3I Synthesis and Photocatalytic Investigations of Metal Sulfide Nanocrystals
15:40-15:50 Oral (6)	Samarjeet Siwal Nishu Devi Kaushik Mallick	Syn. & Char._202-ICN3I Synthesis, characterizations and role of gold-graphitic carbon nitride as a promoter for electro-oxidation of methanol

Wednesday : 06-12-2017

Session II : 16:30-17:30, Venue – LHC 001

16:30-16:50 Invited Talk (2)	Neeru Bhagat Brajesh Pandey	Syn. & Char._686-ICN3I Green synthesis of Gold and Silver nanoparticles and study their properties
16:50-17:00 Oral (7)	T. T. T. Carol Jibrin Mohammed Jyoti Sharma Ajeet Kumar Srivastava	Syn. & Char._19-ICN3I Effect of Calcination Temperature on the Structural, Dielectric and Optical Properties of Nano-sized M-Type Barium Hexaferrites
17:00-17:10	Rajeev Mehta	Syn. & Char._348-ICN3I

Oral (8)	Bikramjit Sharma Rahul Chhibber	Effect of silane functionalization of clay minerals on properties of multiscale woven glass fiber/epoxy nanocomposites
17:10-17:20 Oral (9)	Neelima Mishra	Syn. & Char._360-ICN3I Application of Nanomaterials in Environmental Protection: A Review
17:20-17:30 Oral (10)	Manish D. Yadav Kinshuk Dasgupta Ashwin W. Patwardhan Jyeshtharaj B. Joshi	Syn. & Char._392-ICN3I Controlling the carbon nanotube type with processing parameters from floating catalyst chemical vapour deposition synthesis

Wednesday : 06-12-2017

Session III : 14:30-16:00, Venue – LHC 002

14:30-14:50 Invited Talk (3)	Jai Khare Abhijeet Yadav Mukesh Joshi T Dhami Rakesh Kaul	Syn. & Char._833-ICN3I In-plane Impedance Spectroscopy of drop casted thin film of CZTS on Flexible Polyethylene Terephthalate Substrates
14:50-15:00 Oral (11)	John. D. Rodney S. Deepa Priya K. Raja S. Krishnan S. Janet Priscilla R. Daniel S. Jerome Das	Syn. & Char._83-ICN3I Solution combustion synthesis of CuO nanoparticles and effect of Lanthanum on structural, optical properties of CuO nanoparticles
15:00-15:10 Oral (12)	R. Kannan M. Selvambikai S. Ananthi Prem Kumar	Syn. & Char._232-ICN3I Synthesis and characterization of electroplated nano crystalline NiFeMo and NiFeW thin films for MEMS applications
15:10-15:20 Oral (13)	Priyal Pandey Giriraj Patidar Nirmal De	Syn. & Char._244-ICN3I Halloysite nanotube polymer composite: Synthesis, characterization and effect on water retention behaviour of soil
15:20-15:30 Oral (14)	Avinash Singh M. C. Rath	Syn. & Char._250-ICN3I Green synthesis of starch capped CdSe quantum dots in aqueous solution
15:30-15:40 Oral (15)	Surinder Singh Parminder Singh Harpreet Singh Ramesh Kumar Buddu	Syn. & Char._266-ICN3I Characterization and comparison of copper coating developed by low pressure cold spraying and laser cladding techniques

15:40-15:50 Oral (16)	Pratibha K.B. Pathak J.P.Singh Jyoti Srivastava Tandra Nandi Manoj Bharadwaj Arun Srivastava N Eswara Prasad	Syn. & Char._284-ICN3I Synthesis of Monodispersed MoS ₂ nanoparticles and Tribological properties of Nano- sizeLubricants
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Wednesday : 06-12-2017

Session IV : 16:30-17:30, Venue – LHC 002

16:30-16:50 Invited Talk (4)	Deepak Marla	Syn. & Char._819-ICN3I Laser-induced surface modification of polymers for subsequent electroless plating
16:50-17:00 Oral (17)	G L Devnani Shishir Sinha	Syn. & Char._87-ICN3I Effect of nanofillers on the properties of natural fiber reinforced polymer composites
17:00-17:10 Oral (18)	Sankararao Chappa Prakash Rathod Ashok K Pandey	Syn. & Char._398-ICN3I Poly (ethylene glycol methacrylate phosphate) anchored Fe ₃ O ₄ nanoparticles as a multipurpose material
17:10-17:20 Oral (19)	S. Vadivel D. Maruthamani M. Kumaravel N. Balasubramanian	Syn. & Char._421-ICN3I Facile synthesis of novel g-C ₃ N ₄ /carbon spheres (CS)/BiOBr ternary photocatalyst for visible light photocatalytic applications
17:20-17:30 Oral (20)	Sachin Kadian Braham Dutt Arya Ashish Kalkal Narayan Chandra Mishra	Syn. & Char._426-ICN3I Temporal Stability of 3-Mercaptopropionic Acid Capped Gold Nanoparticle

Wednesday : 06-12-2017

Session V : 14:30-16:00, Venue – LHC 003

14:30-14:50 Invited Talk (5)	U. N. Nandi Animesh Kumar Dey Gaurav Kumar Pradip K. Maji R. K. Chakrabarty	Syn. & Char._439-ICN3I Structural, Morphological and Electrical Conduction in Non-ionic Surfactant-assisted in Situ Polymerized Polyaniline Nanocomposite
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14:50-15:00 Oral (21)	J. Mohammed Jyoti Sharma Tchouank Tekou Carol T. U. T. Isma'il Sachin Kumar H. Y.Hafeez A. K. Srivastava	Syn. & Char._17-ICN3I Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites
15:00-15:10 Oral (22)	Ramdayal Yadav Minoo Naebe Xungai Wang B. Kandasubramanian	Syn. & Char._154-ICN3I Thermomechanical and Dissipative Particle Dynamics aminopropyltriethoxysilane and octadecylamine based Montmorillonite/ Polycarbonate Nanocomposite
15:10-15:20 Oral (23)	Ganesh Bangar B. Kandasubramanian	Syn. & Char._230-ICN3I Anticorrosion performance of hierarchical hydrophobic nanosized fumed silica amalgamated PTFE composite low volume high pressure spray coating
15:20-15:30 Oral (24)	Pallawi Gupta Superb K. Misra	Syn. & Char._246-ICN3I ZnO NPs embedded hierarchical ZSM-5 for Nanoremediation
15:30-15:40 Oral (25)	Kushal Singh Anirban Chowdhury	Syn. & Char._256-ICN3I Faceted Nanocrystals of $Ce_{1-x}Zr_xO_2$ (x = 0.8, 0.6, 0.5) for Catalytic Applications
15:40-15:50 Oral (26)	Priyabrat Mohapatra Debananda Mohapatra Smrutiranjana Parida	Syn. & Char._334-ICN3I Morphology of Gold Nano Particles in Graphene Gold Nanoparticle Composites

Wednesday : 06-12-2017

Session VI : 16:30-17:30, Venue – LHC 003

16:30-16:50 Invited Talk (6)	Bikas C Das Sarath A Sandhya K M	Syn. & Char._303-ICN3I Mn^{2+} -doped CdSe QDs based Memristors: Synthesis, Device Fabrication, and Characterizations
16:50-17:00 Oral (27)	Jayant Thakare Chandan Pandey Rahul S. Mulik Manas M. Mahapatra	Syn. & Char._39-ICN3I Characterization Of Plasma Sprayed Carbon Nanotube Reinforced Ysz–Alumina Composite Coating
17:00-17:10 Oral (28)	Kazi Hasibur Rahman Asit Kumar Kar	Syn. & Char._514-ICN3I Structural and optical properties of ex-situ polymerized PANi-TiO ₂ nanocomposites
17:10-17:20 Oral (29)	Smita Dey Asit Kumar Kar	Syn. & Char._530-ICN3I

		Morphological and optical properties of polypyrrole nanoparticles synthesized by variation of monomer to oxidant ratio
17:20-17:30 Oral (30)	Antika Das Subhajit Saha K. K. Chattopadhyay	Syn. & Char._581-ICN3I Structural & optical properties of Mn ⁴⁺ doped YAM (Y ₄ Al ₂ O ₉) Nanophosphor

Wednesday : 06-12-2017

Session VII : 14:30-16:00, Venue – LHC 004

14:30-14:50 Invited Talk (7)	Madhab C. Das	Syn. & Char._191-ICN3I MOFs based on Carboxylates and Flexible Spacers: Polymorphism, SC-SC Transmetallation, Selective CO ₂ Adsorption/Separation, Proton Conduction
14:50-15:00 Oral (31)	Kusumita Kundu Ashok Ranjan N. Eshwara. Prasad Rajat Banerjee	Syn. & Char._114-ICN3I Unique NIR emission of Silicon Carbide Nano crystal on amorphous SiC Using MOCVD Technique
15:00-15:10 Oral (32)	Rajendra Singh Dhayal	Syn. & Char._287-ICN3I Hydride Assist Growth of Copper Nanoclusters
15:10-15:20 Oral (33)	Paramita Maiti Puspendu Guha Jatis Kumar Dash Parlapalli V. Satyama	Syn. & Char._337-ICN3I Temperature Dependent morphology evolution and phase transition of MoO ₃ grown by molecular beam epitaxy technique
15:20-15:30 Oral (34)	Vinod T. P.	Syn. & Char._362-ICN3I Deterministic assembly of micro-/nanoscale structures through the application of macroscopic mechanical forces
15:30-15:40 Oral (35)	Dimple Pruthi Rashmi Bhardwaj Meenu Chawla	Syn. & Char._374-ICN3I Fractal Analysis of Surface Roughness on Dynamics of Carbon Nanotube
15:40-15:50 Oral (36)	Afzal Ansari Vasi Uddin Siddiqui Amrita Singh Imran Khan Weqar Ahmad Siddiqui	Syn. & Char._431-ICN3I Structural and morphological analysis of synthesized atmospherically stable zero-valent iron nanoparticles (nZVI) with enriched dielectric behaviour

Wednesday : 06-12-2017

Session VIII : 16:30-17:30, Venue – LHC 004

16:30-16:50	Nanda Gopal Sahoo	Syn. & Char._1121-ICN3I
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Invited Talk (8)		Synthesis and Functionalization of Carbon Nanomaterials and Their Applications
16:50-17:00 Oral (37)	S. Savitha S. Saravanan	Syn. & Char._165-ICN3I Structural and Optical Characteristics of InAs QDs Stacked on GaAs substrate by Molecular Beam Epitaxy
17:00-17:10 Oral (38)	Md Sahanoor Islam Siddharth Senapati A. K. Mukhopadhyay J. Ghosh	Syn. & Char._589-ICN3I High Temperature X-ray diffraction Study on Phase Transformation of nano structured Zirconia
17:10-17:20 Oral (39)	Meenakshi Amit Kumar Rabindra Nath Mahato	Syn. & Char._607-ICN3I Synthesis, structural and magnetic properties of Cu doped nanocrystalline $\text{La}_{0.7}\text{Te}_{0.3}\text{Mn}_{0.8}\text{Cu}_{0.2}\text{O}_3$
17:20-17:30 Oral (40)	Khushboo Punia Ganesh Lal Sudhish Kumar	Syn. & Char._629-ICN3I Effect of Li doping on the Structural, Optical Band-gap and Photoluminescence Properties of ZnO Nanoparticles

Thursday : 07-12-2017

Session IX : 10:00-11:00, Venue – LHC 001

10:00-10:30 Plenary Lecture (10)	Wolfgang Betz John Newman D. F. Paul Gregory Fisher Scott Bryan	Syn. & Char._1154-ICN3I Applications of 2- and 3-dimensional Analysis on Nanostructured Materials using XPS, Auger and Time-of-Flight SIMS with MS/MS
10:30-10:50 Invited Talk (9)	Sriparna Chatterjee	Syn. & Char._203-ICN3I Role of defects in controlling wetting behavior of nanostructured metal-oxides

Thursday : 07-12-2017

Session X : 11:30-13:00, Venue – LHC 001

11:30-11:50 Invited Talk (10)	Jadab Sharma	Syn. & Char._142-ICN3I Synthesis of submicron platelets of gold for nanoplasmonics
11:50-12:00 Oral (41)	Manojit De Pinki Kumari Rashmi Tiwari Gurupada Maity	Syn. & Char._474-ICN3I Synthesis and structural characterization of A-site Ba-doped BiFeO_3

	Shiv Poojan Patel H S Tewari	
12:00-12:10 Oral (42)	Sandeep Kumar Chandana Rath	Syn. & Char._485-ICN3I Stabilization of the high temperature cubic phase at room temperature and photoluminescence properties in Dy doped HfO ₂ nanoparticles
12:10-12:20 Oral (43)	Anil Yadav S. P. Nehra Dinesh Patidar	Syn. & Char._490-ICN3I Synthesis, Structural and Optical Properties of ZnSe nanoparticles
12:20-12:30 Oral (44)	Sujata Mandal Sandhya K	Syn. & Char._494-ICN3I Layered double hydroxide - polymer nanocomposites : synthesis, characterization and application in water/wastewater treatment
12:30-12:40 Oral (45)	Shubhra Mathur Rohit Jain	Syn. & Char._502-ICN3I Study of Structural, Optical and Thermal Properties of PANI/TiO ₂ Nanocomposites Prepared by Doping TiO ₂ Nanopowder of Different Phases

Thursday : 07-12-2017

Session XI : 14:30-16:00, Venue – LHC 001

14:30-14:50 Invited Talk (11)	Suresh C. Sharma Neha Gupta Ravi Gupta	Syn. & Char._1148-ICN3I Studies of the Growth and Field Emission Properties of Vertical Graphene Sheet via PECVD Process
14:50-15:00 Oral (46)	Archita Bhattacharjee M. Ahmaruzzaman Chinmay Ghoroi	Syn. & Char._548-ICN3I Aminoacid assisted synthesis of 2D ZnO nanoleaves and its application as a catalyst for the reduction of toxic aromatic nitro compound
15:00-15:10 Oral (47)	Preeti Verma Supratim Giri	Syn. & Char._550-ICN3I Unprecedented Enhancement of NIR-upconversion photo-luminescence in single phase NaYF ₄ :Yb ³⁺ / Ho ³⁺ nanoparticles via Li ⁺ dopant.
15:10-15:20 Oral (48)	Angel Mary Joseph Bhoje Gowd E Surendran K P	Syn. & Char._568-ICN3I A Sustainable in-situ Approach to Covalently Functionalize Graphene Oxide with POSS

		Molecules for Excellent Electrical Insulation Behaviour
15:20-15:30 Oral (49)	Krupali Mehta Sandip Bhatt Umesh Trivedi Bhavesh Bharatiya Mukesh Ranjan Atindra D. Shukla	Syn. & Char._596-ICN3I Hydrophobization of magnetic Iron-nanoparticles with single-step surface modification
15:30-15:40 Oral (50)	Maneet Singh Harmanmeet Kaur Jaskiran Kaur	Syn. & Char._684-ICN3I Structural and Optical Properties of Copper Nanotubes

Thursday : 07-12-2017

Session XII : 16:30-17:30, Venue – LHC 001

16:30-16:50 Invited Talk (12)	H. Arul D. Rajan Babu R. Ezhil Vizhi R. Kannan	Syn. & Char._231-ICN3I Effect of H ⁺ ion implantation on Optical Properties of Single Crystal: Morpholinium dihydrogenphosphate
16:50-17:00 Oral (51)	Sanghamitra Acharya Resham Jagtap Suwarna Datar	Syn. & Char._605-ICN3I Attenuation of microwave radiation by SrFe ₁₂ O ₁₉ decorated on thermally reduced Graphene Oxide in PVDF matrix
17:00-17:10 Oral (52)	Sonal Singhal Saurabh Dixit A. K. Shukla	Syn. & Char._610-ICN3I A facile method for synthesis of superhydrophobic carbon nanospheres by pyrolysis of benzene
17:10-17:20 Oral (53)	Shrilekha Sawant Kinshuk Dasgupta Ashwin Patwardhan Jyeshtharaj B. Joshi	Syn. & Char._653-ICN3I Synthesis of Modified Carbon Nanotubes

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Session XIII : 10:00-11:00, Venue – LHC 002

10:00-10:30 Plenary Lecture (11)	Felicia Iacomi, L. Punga A. Hrib, R. Bosinceanu A. Popa, D. Toloman G. G. Rusu, A. Bele M. Suche, M. Cazacu D. Timpu, S. Simon I. Deac, T. Tropin	Syn. & Char._1153-ICN3I Functional hybrid nanocomposites
10:30-10:50	S. Vynatheya	Syn. & Char._420-ICN3I

Invited Talk (13)	L. Chandra Sagar V. Bheema Raju	Studies on Electroless Ni-P-W Alloy Coated Nano-Cenosphere / Polymer composites for EMI shielding
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Thursday : 07-12-2017

Session XIV : 11:30-13:00, Venue – LHC 002

11:30-11:50 Invited Talk (14)	Preeti Lahiri Hemant Kumar Dubey Chanda Verma	Syn. & Char._1151-ICN3I Synthesis and structural studies of zinc substituted Nickel ferrite nanoparticles
11:50-12:00 Oral (54)	Bhusankar Talluri Edamana Prasad Tiju Thomas	Syn. & Char._430-ICN3I Digestively ripened stable, ultra-small ($r < 3$ nm) copper oxide quantum-dots: synthesis and role of hard-soft-acid-base interactions
12:00-12:10 Oral (55)	P Thomas M Padmini	Syn. & Char._447-ICN3I In-situ synthesis and characterization of Poly(3,4-Ethylenedioxythiophene) - CaCu ₃ Ti ₄ O ₁₂ nano crystal composites
12:10-12:20 Oral (56)	Khemchand Rawat Rabindra Nath Mahato	Syn. & Char._448-ICN3I Structural and magnetic properties of nanocrystalline double perovskites Pr ₂ CoMnO ₆ oxide
12:20-12:30 Oral (57)	Pratik Rekhate N. Shah	Syn. & Char._525-ICN3I Strengthening Mechanism of Aluminium-graphene Composite using Graphene and Graphene oxide by Spark Plasma Sintering
12:30-12:40 Oral (58)	Chetna Chauhan Rajshree Jotania	Syn. & Char._547-ICN3I Effect of Calcination on Structural and Dielectric properties of Lanthanum doped Strontium Hexaferrites

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Session XV : 14:30-16:00, Venue – LHC 002

14:30-14:50 Invited Talk (15)	Chandravati Yadav Pradip K. Maji	Syn. & Char._614-ICN3I Nanocellulose in polymer nanocomposites: current status and future prospect
14:50-15:00 Oral (59)	P. Arun Karthick C. Boopathi N. Aravindkumar K. S. Raghul S. Ramkumar	Syn. & Char._681-ICN3I An Experimental Analysis on Thermo-mechanical Behaviour of Nano Filler Reinforced Polymer Matrix Composites
15:00-15:10 Oral (60)	Priti Yadav Ankur Verma	Syn. & Char._717-ICN3I Effect of Solvent System on the morphology of Electrospun Polystyrene Nanofibres
15:10-15:20	Chithira P R	Syn. & Char._836-ICN3I

Oral (61)	Teny Theresa John	Structural, Optical and Magnetic Properties of Co Doped ZnO Nanoparticles
15:20-15:30 Oral (62)	Laxmikanta Karmakar Debajyoti Das	Syn. & Char._952-ICN3I Optimization of Nano-structured Tin Doped Indium Oxide Films Grown at Substrate Temperature close to the Melting Point of Tin
15:30-15:40 Oral (63)	Jasdeep Prabhat Agnihotri	Syn. & Char._1080-ICN3I Synthesis and Characterization of Poly-Urethane Foam Doped with Different Nanofillers

Thursday : 07-12-2017

Session XVI : 16:30-17:30, Venue – LHC 002

16:30-16:50 Invited Talk (16)	Chitra M Mangamma G Uthayarani K Rajasekaran N Neelakandeswari N Girija E K	Syn. & Char._966-ICN3I Raman spectroscopic studies on the ethanol sensing property of individual, binary and ternary combinations of zinc oxide, tin oxide and vanadium oxide
16:50-17:00 Oral (64)	Radha Raman Mishra Apurbba Kumar Sharma	Syn. & Char._77-ICN3I Influence of processing power on properties of in-situ microwave casts of 7039 aluminum alloy developed at 2.45 GHz
17:00-17:10 Oral (65)	K B Modi K B Zankat K. G. Saija P R Pansara N H Vasoya S J Shah	Syn. & Char._861-ICN3I Bimodal to uni-modal particle size distribution transformation in nanocrystalline cobalt – ferri – chromites
17:10-17:20 Oral (66)	Pratap Sagar Nayak Priyabrat Dash	Syn. & Char._970-ICN3I Design of Ternary Nanocomposite of Graphene Oxide, MnO ₂ and Gold Nanoparticles for efficient Synthesis of Betti Bases

Friday : 08-12-2017

Session XVII : 09:00-11:00, Venue – LHC 002

09:00-09:20	Subrata Chattopadhyay	Syn. & Char._1117-ICN3I
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Invited Talk (17)		Green Synthesis of Polymer Nanoparticles
09:20-09:30 Oral (67)	Deepak Kumar Dinkar Brijnandan Singh Dehiya	Syn. & Char._55-ICN3I Advanced Rietveld Refinement for the Structural Analysis of NiFe ₂ O ₄ Magnetic Nanoparticles Using Time Reversal Symmetry Operator and Determining Its Magnetic Space Group
09:30-09:40 Oral (68)	Miracle Warjri Jyoti Narayan	Syn. & Char._725-ICN3I Synthesis, Characterisation and Physicochemical properties of Cupric oxide nanoparticles and their nanofluids
09:40-09:50 Oral (69)	Kavita Yadav Manivannan R. Noyel Victoria S.	Syn. & Char._764-ICN3I Electrochemical characterization of ruthenium dissolution and chemical mechanical polishing in hydrogen peroxide based slurries
09:50-10:00 Oral (70)	Meenakshi Pundir Devendra S. Rawat Charu C. Pant Prabhat Dwivedi Sanjay Kumar Jitendra K. Pandey	Syn. & Char._773-ICN3I Magnetite/SiO ₂ Biopolymer based Hybrid Nanoadsorbent for Cr (VI) removal from water
10:00-10:10 Oral (71)	Dayananda Desagani Simbu Rabadia Srilakshmi Chilukoti	Syn. & Char._782-ICN3I Synthesis of high surface area SrTiO ₃ nanoparticles by microwave assisted hydrothermal method: Application towards the adsorption of Congo red dye
10:10-10:20 Oral (72)	Arnab Mondal Sridatri Nandy Biplab Paul Dipayan Sanyal	Syn. & Char._882-ICN3I Fabrication of Engineered Precision Nanostructures on Flexible Substrates by A Unique Maskless Laser Lithography
10:20-10:30 Oral (73)	Sarat Kumar Rout Swadesh K Pratihari Santanu Bhattacharyya Priya Darshini Jani	Syn. & Char._1048-ICN3I Synthesis of Nano crystalline Ce _{0.8} Sm _{0.2} O _{1.9-δ} (SDC) as SOFC electrolyte material: A novel combustion approach
10:30-10:40 Oral (74)	Shraddha Mishra Nishith Verma	Syn. & Char._1081-ICN3I Synthesis of carbon gel supported Fe-doped graphene using waste graphite rods: Adsorption performance and plausible mechanism for Cr(VI) and Pb(II)

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Session XVIII: 11:30-13:00, Venue – LHC 002

11:30-11:50 Invited Talk (18)	M. K. Sinha B. R. Das N. Eswara Prasad B. Kishore K. Kumar D. Bharathi	Syn. & Char._1130-ICN3I Emerging Trends in Nanofibrous Materials for Defence Protective Textiles (DPT) Applications
11:50-12:00 Oral (75)	Raghu R. P. Kuppusamy R. Rajasekar	Syn. & Char._176-ICN3I Experimental Optimization of Chemical Synthesis of Silver Nano Particles
12:00-12:10 Oral (76)	Amit Tomar Rajveer Singh Tanuj Deswal Poonam Pahuja	Syn. & Char._259-ICN3I Erbium modified strontium bismuth niobate: Synthesis, structural and compositional study
12:10-12:20 Oral (77)	Veereshgouda Naragund Prasant Kumar Panda	Syn. & Char._382-ICN3I Electrospun Cellulose Acetate Nanofibers Using a New Solvent System
12:20-12:30 Oral (78)	Sapna Sethi	Syn. & Char._450-ICN3I In-situ synthesis of silver nanoparticles using biopolymer based hybrid hydrogel template
12:30-12:40 Oral (79)	S. S. Subramanian Mallaiya Kumaravel	Syn. & Char._799-ICN3I Fabrication of superhydrophobic surface on anodized aluminium by a one step wet-chemical route

Friday : 08-12-2017

Session XIX : 09:00-11:00, Venue – LHC 003

09:00-09:20 Invited Talk (19)	Kingsuk Mukhopadhyay Debmalya Roy Alok Kumar Srivastava Amit Saraiya N. Eswara Prasad	Syn. & Char._1124-ICN3I 0D, 1D, 2D and 3D Nanomaterials: Synthesis and functionalization
09:20-09:30 Oral (80)	Aditi Singhal	Syn. & Char._835-ICN3I Cobalt based nanomaterial for electrochemical oxygen evolution
09:30-09:40 Oral (81)	Sanghamitra Mohapatra Adnan Asad Karim Manish Kumar	Syn. & Char._907-ICN3I

		Production and characterization of Fe-S modified biochar composite for removal of Cr (VI) in aqueous solution
09:40-09:50 Oral (82)	Maneesh Tiwari Papori Seal J. P. Borah Nibedita Paul	Syn. & Char._955-ICN3I Functionalization of Carbon Nanotubes and its Nanocomposites for Hyperthermia studies
09:50-10:00 Oral (83)	Sonika Thakur Parminder Kaur Lakhwant Singh	Syn. & Char._968-ICN3I Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles
10:00-10:10 Oral (84)	Sanjeev Kumar Jyoti Shakya Tanuja Mohanty	Syn. & Char._978-ICN3I Raman Study of MoS ₂ -TiO ₂ Nanocomposites Annealed at Different Temperature
10:10-10:20 Oral (85)	Ajay Roy Debajyoti Das	Syn. & Char._986-ICN3I Growth of Multiwall Carbon Nanotubes at 300 °C Using CO ₂ as a Weak Oxidant to (CH ₄ +H ₂) Microwave Plasma
10:20-10:30 Oral (86)	Rekha Garg Solanki Poolla Rajaram	Syn. & Char._1023-ICN3I Synthesis of Cadmium Chalcogenide (CdE, E= S, Se) Nanoparticles by hydrothermal process in presence of Hydrazine hydrate
10:30-10:40 Oral (87)	Kalvakunta Paul Reddy Poornima Dubey P Gopinath A Murugadoss	Syn. & Char._1056-ICN3I High Yield Synthesis of Branched Gold Nanoparticles as Highly Efficient Photothermal Agents

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Session XX : 11:30-13:00, Venue – LHC 003

11:30-11:50 Invited Talk (20)	Anirban Chowdhury	Syn. & Char._27-ICN3I Impact of Nanoscale: Issues and Confusions related to sinterability and hardness data (micro and nano) for La ₂ Zr ₂ O ₇ system
11:50-12:00 Oral (88)	Ghausia Rehman Pratibha Chauhan Mallavika Bhagat Gbks Prasad	Syn. & Char._405-ICN3I Nanoparticles from Gymnema sylvestre leaf extract and Momordica charantia seed extract and their characterization
12:00-12:10 Oral (89)	Bishakha Ray Suwarna Datar	Syn. & Char._656-ICN3I Study of Magnetism Induced in Graphene Nanoribbons and Conjugated Ferromagnetic Composites

12:10-12:20 Oral (90)	Lekha Sharma Rita Kakkar	Syn. & Char._700-ICN3I Evolution of highly porous hierarchical 3D trapezoids of MgO and Fe-mixed MgO for efficient adsorption of chlorpyrifos
12:20-12:30 Oral (91)	T. Mondal A. Tiwari	Syn. & Char._708-ICN3I Thermal effect on Raman scattering of Fullerene oxides
12:30-12:40 Oral (92)	S. Chattopadhyay Barnali Sengupta Sridatri Nandy Unissa Nichul Susanta Sengupta Dipayan Sanyal	Syn. & Char._864-ICN3I Synthesis of PMMA Nanospheres by Emulsion Polymerization For Templated Fabrication of Porous Ceramic Structures
12:40-12:50 Oral (93)	K. P. Tiwary K. Sharma Neha Bala Swati Raj Deep Shikha Kumari Firdaus Ali Anjali Singh	Syn. & Char._980-ICN3I Microwave assisted synthesis of undoped and Cu doped CdS nanoparticles and their structural, morphological and optical characterization

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Session XXI : 09:00-11:00, Venue – LHC 004

09:00-09:20 Invited Talk (21)	P. Gangopadhyay	Syn. & Char._63-ICN3I Alloy metal and metal-semiconductor nanomaterials
09:20-09:40 Invited Talk (22)	P. Meher C. Kiran A. Patra R. Saxena S. K. Karak	Syn. & Char._188-ICN3I Effect of Ni addition on microstructure, mechanical and high temperature behavior of mechanically alloyed W-Nb
09:40-09:50 Oral (94)	Avijit Dewasi Anirban Mitra	Syn. & Char._1054-ICN3I Influence of O ₂ Working Pressure on Pulsed Laser Deposited TiO ₂ Thin Films
09:50-10:00 Oral (95)	Sanjay K. Sinha Neha Bala Swati Raj Deep Shikha Kumari Firdaus Ali Anjali Singh	Syn. & Char._1063-ICN3I Synthesis and study of Electrical and Structural Properties of doped and undoped Lithium Titanate
10:00-10:10 Oral (96)	Vandna K Gupta Alka A Ingale Mahesh Gokhale	Syn. & Char._1069-ICN3I Study of polytypism in InAs nanowires using resonance Raman spectroscopy
10:10-10:20	Gunda Rajitha	Syn. & Char._1070-ICN3I

Oral (97)	Raj Kishora Dash	Investigation of the Dielectric Properties of rGO-PDMS and functionalized- rGO-PDMS nanocomposites
10:20-10:30 Oral (98)	Sravendra Rana S. R. V. Siva Prasanna Balaji K.	Syn. & Char._1137-ICN3I Click triggered self-healing graphene nanocomposites
10:30-10:40 Oral (99)	M. J. Khoshgoftar M. Shaban	Syn. & Char._1145-ICN3I Three Dimensional Elastic Analysis of Single Wall Carbon Nano Tubes by Applying Non-Local Theory and State Space Method

Friday : 08-12-2017

Session XXII : 09:00-11:00, Venue – LHC 005

09:00-09:20 Invited Talk (23)	Debajyoti Das Laxmikanta Karmakar	Syn. & Char._958-ICN3I Minimization of Reflection-Loss from Etched Nano-structures of Single Crystal Silicon Wafers
09:20-09:30 Oral (100)	Shivangi Saharawt H. A Zaidi	Syn. & Char._543-ICN3I Effect of ZSM-5 zeolite prepared by acid treatment in conversion of glycerol to olefins
09:30-09:40 Oral (101)	Swapnil S. Nardekar Pravin Walke Dattatray J. Late	Syn. & Char._757-ICN3I Bio waste derived activated Nono-porous carbon for dye degradation
09:40-09:50 Oral (102)	Koena Ghosh	Syn. & Char._1096-ICN3I Enhanced reactivity of NHC precursor in confined environment of water-in-oil mixed surfactant microemulsion for Heck reaction
09:50-10:00 Oral (103)	Debmalya Roy Kingsuk Mukhopadhyay N. Eswara Prasad	Syn. & Char._1123-ICN3I Understanding the Electrical and Thermal Conduction Mechanism in Polymer Matrix Utilizing Hierarchical Nanostructures
10:00-10:10 Oral (104)	Himanshi Chaurasia Santosh K. Tripathi K. Mukhopadhyay N. Eswara Prasad	Syn. & Char._1144-ICN3I Preparation and Properties of AlN Thin Films: Study the Effect of Annealing

4. Theme: Energy & Nano-electronics

Wednesday : 06-12-2017, Venue – Convocation Hall

12:30-12:50 Invited Talk	Sabyasachi Sarkar	Energy & Nano. Elect._440-ICN3I Aerobic Respiration of Coal Generating Electricity
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Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LHC 101

14:30-14:50 Invited Talk (1)	Amarnath C. Anbalagan Shilpa N. Sawant	Energy & Nano. Elect._370-ICN3I Enhancing Energy Storage and Sensing Property of Polyaniline Nanocomposite Based Electrodes Using Redox Mediator
14:50-15:00 Oral (1)	Suparna Das Kingshuk Dutta Swapan Kumar Bhattacharya	Energy & Nano. Elect._16-ICN3I Nanostructured polyaniline matrices as efficient and durable catalyst support for methanol oxidation in acid medium
15:00-15:10 Oral (2)	Anukul K. Thakur Mandira Majumder Ram Bilash Choudhury	Energy & Nano. Elect._33-ICN3I Inorganic Fillers Blended With Conducting Polymers: An Effective Route To High Volumetric Capacitive Materials
15:10-15:20 Oral (3)	Nitin Kumar Alok Shukla Nripesh Kumar R. N. P. Choudhary	Energy & Nano. Elect._53-ICN3I Design And Development Of Bismuth Ferrite Based Environmental Friendly Multiferroic Material For Devices
15:20-15:30 Oral (4)	Mohammed Khalifa S. Janakiraman Sudipto Ghosh A. Venimadhav S. Anandhan	Energy & Nano. Elect._64-ICN3I New Gel Polymer Electrolyte from Electrospun PVDF/Halloysite Nanocomposite-based Non-woven Fabric for Lithium Ion Battery
15:30-15:40 Oral (5)	Avijit Ghosh Biswajit Mandal Sunil Baran Kuila	Energy & Nano. Elect._90-ICN3I Development of graphene supported highly durable Pt-free non-noble metal electrocatalysts for PEM Fuel cell
15:40-15:50 Oral (6)	Nishith Parikh	Energy & Nano. Elect._275-ICN3I

		Nanoscale Investigation of Membrane/Catalyst Degradation in Proton Exchange membrane (PEM) Fuel Cells
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Wednesday : 06-12-2017

Session II : 16:30-17:30, Venue – LHC 101

16:30-16:50 Invited Talk (2)	Vikas Sharma Sudipta Biswas Amreesh Chandra	Energy & Nano. Elect._539-ICN3I Use of Hollow Nanostructures for obtaining Next Generation Supercapacitors
16:50-17:00 Oral (7)	Uttam Manna Dibyangana Parbat	Energy & Nano. Elect._178-ICN3I Material That capable of Smart Affair with Liquids
17:00-17:10 Oral (8)	Dhananjay Kumar Singh Jairam Manam	Energy & Nano. Elect._536-ICN3I Spectroscopic studies of thermally stable perovskite $\text{SrTiO}_3:\text{Sm}^{3+}$ phosphors for lighting applications
17:10-17:20 Oral (9)	Taniya Purkait Guneet Singh Navpreet Kamboj Ramendra S Dey	Energy & Nano. Elect._1086-ICN3I Electrochemically reduced graphene oxide and conducting polymer nanocomposites for in-plane supercapacitors

Wednesday : 06-12-2017

Session III : 14:30-16:00, Venue – LHC 102

14:30-14:50 Invited Talk (3)	Anand Kumar Srivastava	Energy & Nano. Elect._492-ICN3I Selection of Dielectric Material for Producing Diffuse Dielectric Barrier Discharge Plasma at Atmospheric Pressure
14:50-15:00 Oral (10)	K K Mishra	Energy & Nano. Elect._4-ICN3I Two Dimensional Layered Silicene/Graphene Armchair (W=8) Nanoribbon Interfaced Device
15:00-15:10 Oral (11)	Bramha P Pandey S K Tripathy	Energy & Nano. Elect._13-ICN3I Bandgap Tuning of GaAs Armchair nanoribbons
15:10-15:20 Oral (12)	Amodini Mishra Tanuja Mohanty	Energy & Nano. Elect._60-ICN3I

	B. K. Kuanr	Study of Magnetic Nanoparticles Decorated on Two-Dimensional Sheets
15:20-15:30 Oral (13)	P Annie Vinosha S. Jerome Das	Energy & Nano. Elect. _76-ICN3I Nanocrystalline Ferrite (MFe ₂ O ₄ , M=Ni, Cu, Mn and Sr) photocatalysts synthesized by Homogeneous Co-precipitation technique
15:30-15:40 Oral (14)	K. C. Kharkwal A. K. Pramanik	Energy & Nano. Elect. _86-ICN3I Charge Transport in Thin Insulating Layer of Sr ₂ FeIrO ₆ Separated by Metallic Layers of La _{0.67} Sr _{0.33} MnO ₃
15:40-15:50 Oral (15)	D. Rajenthirakumar R. Sridhar N. Srinivasan	Energy & Nano. Elect. _113-ICN3I Micro and Nano fabrication: An experimental investigation of grain size effect

Wednesday : 06-12-2017

Session IV : 16:30-17:30, Venue – LHC 102

16:30-16:50 Invited Talk (4)	Nageshwar Rao Burjupati Arunjothi R.	Energy & Nano. Elect. _445-ICN3I A Study on the dielectric response of Polyethylene-metal oxide nanocomposites for electrical insulation in HVDC cables
16:50-17:00 Oral (16)	Deepika Shailesh Kumar Alok Shukla Rakesh Kumar	Energy & Nano. Elect. _181-ICN3I Origin of multiple band gap values in single width nanoribbons
17:00-17:10 Oral (17)	Somendra Singh Shama Perween Amit Ranjan	Energy & Nano. Elect. _236-ICN3I Synthesis and Characterization of Nitrogenated ZnTiO ₃ Nanoparticles with Strongly Enhanced Visible-light Photocatalytic Activity
17:10-17:20 Oral (18)	Amit Kumar Mishra B. B. Lahiri John Philip	Energy & Nano. Elect. _272-ICN3I Nano-inclusion assisted enhancement in thermal conductivity of phenol-water mixture for room temperature energy storage applications
17:20-17:30 Oral (19)	Md. Osim Aquatar Tanvir Arfin	Energy & Nano. Elect. _296-ICN3I Methyl Orange dye removal by a novel GO-ZnO nano-composite

Thursday : 07-12-2017

Session V : 10:00-11:00, Venue – LHC 004

10:00-10:20 Invited Talk (5)	Pranay Ranjan Ashutosh Kumar Atul Kumar T. Bera Ajay D. Thakur	Energy & Nano. Elect._198-ICN3I Non-toxic earth abundant element based functional nanomaterials: Scope and Challenges
10:20-10:30 Oral (20)	Satya Veer Singh B. N. Pal	Energy & Nano. Elect._224-ICN3I In-situ growth of metal chalcogenides nanoparticle within metal oxide thin film for photovoltaic device application
10:30-10:40 Oral (21)	Raji Vadakkekara	Energy & Nano. Elect._242-ICN3I Black hydrogenated titanium dioxide nano sheets as an electrocatalyst for overall water splitting
10:40-10:50 Oral (22)	Tushar Gupta Zishuang Yue Fan Wang Zhenyu Yang Ji Yu Jianxi Cai Nikhil Koratkar	Energy & Nano. Elect._261-ICN3I Ultra-Small Phosphorus Nanoparticles for High-Performance Lithium-Ion Battery Anodes

Thursday : 07-12-2017**Session VI : 11:30-13:00, Venue – LHC 004**

11:30-11:50 Invited Talk (6)	Qamar T. Siddiqui Prabhjyot Bhui Mohammad Muneer K. R. S. Chandrakumar Sangita Bose Neeraj Agarwal	Energy & Nano. Elect._220-ICN3I Nano assembly of high dipole moment imidazoanthraquinone derivatives and their charge transport studies
11:50-12:00 Oral (23)	P. E. Lokhande U. S. Chavan S. V. Deokar	Energy & Nano. Elect._323-ICN3I Surfactant free chemically deposited wheat spike like nanostructured CuO on Cu foam for supercapacitor applications
12:00-12:10 Oral (24)	Surby Gupta Devinder singh	Energy & Nano. Elect._347-ICN3I Effect of A cation size on physical properties of layered perovskites

12:10-12:20 Oral (25)	Mamta Kumari H. S. Sodaye R.C. Bindal	Energy & Nano. Elect._354-ICN3I Nano composite - Cross linked proton exchange membrane for fuel cell application
12:20-12:30 Oral (26)	Gopinath Sahoo Subrata Ghosh S. R. Polaki M. Kamruddin	Energy & Nano. Elect._379-ICN3I Oxygen Plasma Treated Vertical Graphene Nanosheets for Supercapacitor Application
12:30-12:40 Oral (27)	Suprabhat Sarkar Dayakar Gandla Sutapa Ghosh	Energy & Nano. Elect._425-ICN3I Polyaniline Nanocomposite of Copper Spinel: A Novel Hybrid Material for Energy Storage Application

Thursday : 07-12-2017

Session VII : 14:30-16:00, Venue – LHC 004

14:30-14:50 Invited Talk (7)	Pragati Thakur	Energy & Nano. Elect._576-ICN3I Solar Photocatalytic Hydrogen Evolution : systematic approach towards clean energy and environment
14:50-15:00 Oral (28)	N. Saranya J. Jayapriya	Energy & Nano. Elect._429-ICN3I Polyaniline wrapped Carbon cloth/metal oxide nanocomposite for microbial fuel cell and its application
15:00-15:10 Oral (29)	M. Ramadurai N. Thansila Parvin S. Komathi P. Prabhu	Energy & Nano. Elect._454-ICN3I Synthesis and Characterization of 3-Mercaptopropylsulfonate Capped Metal-Oxide Nanoclusters for Supercapacitors and Photoluminescence applications
15:10-15:20 Oral (30)	Karthik S Bhat H S Nagaraja	Energy & Nano. Elect._460-ICN3I Cobalt hydroxide nanosheets as high performance pseudo-capacitor electrodes
15:20-15:30 Oral (31)	Sudipta Biswas Amreesh Chandra	Energy & Nano. Elect._532-ICN3I FeVO ₄ /PANi composite as anode material to achieve high performance supercapacitors
15:30-15:40 Oral (32)	Ananya Chowdhury Amreesh Chandra	Energy & Nano. Elect._534-ICN3I Conducting polymer (PANi) directed enhancement in electrochemical performance of NaMnPO ₄ for Na-ion supercapacitors

Thursday : 07-12-2017

Session VIII : 16:30-17:30, Venue – LHC 004

16:30-16:50 Invited Talk (8)	Manika Khanuja	Energy & Nano. Elect._56-ICN3I Nanostructured Materials For Photocatalytic Water Purification
16:50-17:00 Oral (33)	Sreejith P. Madhusudanan Sudip K. Batabyal	Energy & Nano. Elect._573-ICN3I Fabrication of photoactive $\text{Cu}_2\text{FeSnS}_4$ nanostructures for thin film solar cells
17:00-17:10 Oral (34)	Shivangi Kosta Kuldeep Rana	Energy & Nano. Elect._587-ICN3I Carbon Based Material Synthesis and Their Application as Electrodes for Soluble Lead Redox Flow Batteries
17:10-17:20 Oral (35)	Shibu P V Binson Babu Rosy Antony M M Shaijumon	Energy & Nano. Elect._1068-ICN3I Controllable synthesis of Mn_3O_4 /graphene hybrids for high performance lithium ion battery electrodes

Thursday : 07-12-2017

Session IX : 10:00-11:00, Venue – LHC 005

10:00-10:20 Invited Talk (9)	Kumbam Lingeshwar Reddy Vipul Sharma Ashish Bahuguna Suneel Kumar Ajay Kumar Ashish Kumar Ramachandran Balaji Venkata Krishnan	Energy & Nano. Elect._1120-ICN3I Development of Nanocomposites for Photocatalytic Water Splitting and Environmental Remediation
10:20-10:30 Oral (36)	Suneel Kumar Nagappagari Lakshmana Reddy Ashish Kumar Muthukonda Venkatakrishnan Shankar Venkata Krishnana	Energy & Nano. Elect._602-ICN3I Two Dimensional N-doped ZnO-Graphitic Carbon Nitride Nanosheets Heterojunctions with Enhanced Photocatalytic Hydrogen Evolution
10:30-10:40 Oral (37)	P. K. P. Aaditya Vignesh	Energy & Nano. Elect._655-ICN3I Fabrication of Solar helmets using Quantum dots by Electron beam lithography
10:40-10:50 Oral (38)	Ayon Karmakar Suneel K. Srivastava	Energy & Nano. Elect._661-ICN3I Protective Agent Free Synthesis of Cu Substituted Spinel Cobalt Oxide Nanoplates: An Electrocatalyst for Oxygen Evolution Reaction

Thursday : 07-12-2017

Session X : 11:30-13:00, Venue – LHC 005

11:30-11:40 Oral (39)	Yogesh Shinde Pragati Thakur	Energy & Nano. Elect._722-ICN3I Synthesis of platinum decorated RGO-TiO ₂ (Aeroxide P25) composite for photocatalytic hydrogen evolution
11:40-11:50 Oral (40)	Neha Tavker Manu Sharma	Energy & Nano. Elect._795-ICN3I Agro-waste extracted cellulose supported silver phosphate nanocomposite for enhanced visible light photocatalysis
11:50-12:00 Oral (41)	Dijo Damein Athira Anil Dipanwita Chatterjee M. M. Shaijumon	Energy & Nano. Elect._805-ICN3I MoSe ₂ nanocrystals directly deposited on conducting substrates as highly efficient electrocatalysts for hydrogen evolution reaction
12:00-12:10 Oral (42)	Arundhati Sarkar Anjik Chowdhury Debargha Chakravorty Saibal Ganguly Kajari Kargupta	Energy & Nano. Elect._816-ICN3I Synthesis of inexpensive, recyclable reduced graphene oxide (rGO) based ferritic photocatalyst for hydrogen generation from water by visible irradiation
12:10-12:20 Oral (43)	Vikas Kumar Whitney L. Schmidt Giorgio Schileo Derek C. Sinclair Ian M. Reaney Cornelia Rodenburg	Energy & Nano. Elect._831-ICN3I Cross sectional bromide segregation mapping of complex hybrid perovskite photovoltaic films using Secondary Electron Hyperspectral Imaging
12:20-12:30 Oral (44)	Nilesh Saykar S. K. Mahaptra	Energy & Nano. Elect._862-ICN3I Temperature dependent capacitive behaviour of NiO-Co ₃ O ₄ based symmetric supercapacitor
12:30-12:40 Oral (45)	Mohammad Shaad Ansari Avishek Banik Mohammad Qureshi	Energy & Nano. Elect._897-ICN3I Morphological tuning of photo-booster g-C ₃ N ₄ with higher surface area and better charge transfers for enhanced power conversion efficiency of quantum dot sensitized solar cells

Thursday : 07-12-2017

Session XI : 14:30-16:00, Venue – LHC 005

14:30-14:50 Invited Talk (10)	Sanjay Kumar Srivastava	Energy & Nano. Elect._214-ICN3I Nano-structured Black Silicon for Efficient Thin Silicon Solar Cells: Potential and Challenges
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14:50-15:00 Oral (46)	Ravindra G. Waykar Priyanka G. Katore Ganesh S lonkar Shruthi S. Nair Amit S Pawbake Ajinkya B. Bhorde A. M. Funde, S. R. Jadkar	Energy & Nano. Elect._697-ICN3I Low temperature synthesis of Al-doped ZnO (AZO) as a front electrode for the application in organometal halide perovskite solar cell
15:00-15:10 Oral (47)	Yogendra Kumar Alfa Sharma Parasharam M Shirage	Energy & Nano. Elect._880-ICN3I Enhanced energy product (BH_{max}) of doped cobalt ferrite nanoparticles: Towards permanent magnet applications
15:10-15:20 Oral (48)	Avishek Banik Mohammad Shaad Ansari Mohammad Qureshi	Energy & Nano. Elect._903-ICN3I Efficient energy harvesting via scattering and charge transfer in ZnO Based Solar Cells using Submicron Sized SiO_2 Nanospheres
15:20-15:30 Oral (49)	Indu Gupta Kunal J Tiwari P. Malar Bhaskar Chandra Mohanty	Energy & Nano. Elect._931-ICN3I An efficient sulfurization process for the growth of phase pure Cu_2ZnSnS_4 thin films from ethanol based non-toxic solutions
15:30-15:40 Oral (50)	Arvind Singh Bilal Ahmed Animesh K. Ojha	Energy & Nano. Elect._936-ICN3I One-pot synthesis of pure and Zn doped CdS nanostructures as efficient photocatalyst materials for the degradation of toxic pollutants under UV irradiation

Thursday : 07-12-2017

Session XII : 16:30-17:30, Venue – LHC 005

16:30-16:50 Invited Talk (11)	Anirban Maitra Bhanu Bhusan Khatua	Energy & Nano. Elect._339-ICN3I Fabrication of PDMS Encapsulated All-Solid-State Asymmetric Supercapacitor Power Cell Based on Hierarchical Zn-Fe-Co Ternary Oxide Nanowire arrays and Nitrogen Doped Graphene Nanosheets for High Power Device Applications
16:50-17:00 Oral (51)	R. Suresh Kumar P. K. Rajesh S. Vadivel D. Maruthamani M. Kumaravel S. Neelakrishnan V. Velarasan	Energy & Nano. Elect._1088-ICN3I Polyol- Mediated Synthesis of Cu_2SnS_3 Nanoparticles for High Performance Supercapacitors for Automotive Applications
17:00-17:10 Oral (52)	Neha Kanaujiya Nagesh Kumar	Energy & Nano. Elect._1089-ICN3I

	Yogesh Sharma G. D. Varma	Investigating the electrochemical performance of flower-like MoS ₂ in different electrolytes
17:10-17:20 Oral (53)	Kamal Prakash Piyush Kumar Sonkar V. Ganesan M. Sankar	Energy & Nano. Elect._1101-ICN3I Co(II) Porphyrins decorated carbon nanotubes as catalysts for oxygen reduction reaction (ORR): An approach for fuel cell improvement

Thursday : 07-12-2017

Session XIII : 10:00-11:00, Venue – LH 006

10:00-10:20 Invited Talk (12)	Sachin Tyagi Vidhu Shekhar Pandey Shivanshu Goel Trilok C. Shami Himangshu B Baskey	Energy & Nano. Elect._732-ICN3I Development of Electroless (Ni-P)/BaFe ₁₂ O ₁₉ Nanocomposite for Enhanced RADAR absorption
10:20-10:30 Oral (54)	Santanu Talukder	Energy & Nano. Elect._163-ICN3I Advanced nanopatterning using scanning probe technology
10:30-10:40 Oral (55)	Deepika H. Singh N.S. Saxena	Energy & Nano. Elect._305-ICN3I Study of Electrical conduction in nanostructured Ge _{1-x} Sn _x Se _{2.5} (x=0, 0.3, 0.5) thin films
10:40-10:50 Oral (56)	Prateek Goyal Superb K Misra	Energy & Nano. Elect._366-ICN3I Photodegradation and Adsorption study of multifunctional ZnO-Fe ₃ O ₄ nanocomposites for removal of heavy metals (Pb ²⁺ and Cu ²⁺) and organic dye (Methylene Blue)

Thursday : 07-12-2017

Session XIV : 11:30-13:00, Venue – LH 006

11:30-11:50 Invited Talk (13)	Rudra Sankar Dhar Lalthanpuii Khiangte	Energy & Nano. Elect._257-ICN3I Doubly Infused Strain in sub-50 nm three layered channel Heterostructure on Insulator MOSFET
11:50-12:00 Oral (57)	Anil K. Yadav Ajay D. Thakur C. V. Tomy	Energy & Nano. Elect._367-ICN3I Growth, characterization and vortex state study of single crystals FeCr _{0.02} Se of the iron chalcogenide superconductor
12:00-12:10 Oral (58)	Ankur Pandya Prafulla K. Jha	Energy & Nano. Elect._386-ICN3I Phonon constrained electron transport investigation in carburized and fluorinated h - boron nitride nanoribbons

12:10-12:20 Oral (59)	M. Karthigai Pandian K. Saravanakumar T Chinnadurai	Energy & Nano. Elect._428-ICN3I A Two-Dimensional Analytical Threshold Voltage Model for Short Channel Junction Based Cylindrical Surrounding Gate (JBCSG) Nanowire MOSFETs
12:20-12:30 Oral (60)	Debabrata Mandal Amreesh Chandra	Energy & Nano. Elect._535-ICN3I Optical and Electrochemical studies of Nitrogen Doped Graphene Quantum Dot
12:30-12:40 Oral (61)	Sushree S. Priyadarshini Shweta Rout Nilotpala Pradhan	Energy & Nano. Elect._714-ICN3I Microalgal biomass based synthesis of Silver nanoparticles and its application for dye degradation

Thursday : 07-12-2017

Session XV : 14:30-16:00, Venue – LH 006

14:30-14:50 Invited Talk (14)	S. Narayana Jammalamadaka	Energy & Nano. Elect._1118-ICN3I Conductance switching and tunneling of electrons in magnetostriction based nanocontacts
14:50-15:00 Oral (62)	Y. Premkumar Singh Amit Jain Avinashi Kapoor	Energy & Nano. Elect._872-ICN3I Copper Nanoparticles for Efficient and Low Cost Plasmonic Solar Cells
15:00-15:10 Oral (63)	Kulwinder Kaur Nisika Heydar Honaryar Nazari Tara P Dhakal Mukesh Kumar	Energy & Nano. Elect._965-ICN3I 5.35% efficiency of optimized composition close to stoichiometry in Cu-Zn-Sn-S solar cell
15:10-15:20 Oral (64)	Amit Kumar Nagesh Kumar Sridhar Chandrasekaran Jihperng Leu Tseung-Yuen Tseng	Energy & Nano. Elect._1103-ICN3I A facile one-step synthesis of high performance Mn ₃ O ₄ -Multiwalled carbon nanotubes composite electrode for high performance supercapacitors
15:20-15:30 Oral (65)	Shreyasi Chattopadhyay Swastik Mondal Goutam De	Energy & Nano. Elect._1122-ICN3I Zr substitution in the anatase TiO ₂ lattice with exposed high energy facets exhibiting excellent solar energy harvesting ability
15:30-15:40 Oral (66)	M. Selvakumar Sangeetha D. N.	Energy & Nano. Elect._1142-ICN3I Sustainable Synthesis of Active Activated Carbon/MoO ₃ Nanocomposites For Supercapacitor And Hydrogen Evolution Reactions

Thursday : 07-12-2017

Session XVI : 16:30-17:30, Venue – LH 006

16:30-16:50 Invited Talk (15)	S K Saha	Energy & Nano. Elect._1143-ICN3I Unusual magnetism in functional 2D materials
16:50-17:00 Oral (67)	Lopamudra Halder Bhanu Bhusan Khatua	Energy & Nano. Elect._342-ICN3I High Energy Density Ternary Composite Electroactive Material Based on Polyaniline (PANI), Manganese Cobaltite and Reduced Graphene Oxide Prepared by Hydrothermal Protocol and Their Synergistic Contributions in Supercapacitive Performance
17:00-17:10 Oral (68)	V. Sai Bhargava Manu Sharma	Energy & Nano. Elect._853-ICN3I Synthesis of g-C ₃ N ₄ / CuO heterostructures with enhanced photocatalytic activity.
17:10-17:20 Oral (69)	Sasmita Dash Amalendu Patnaik	Energy & Nano. Elect._854-ICN3I Sub-wavelength Graphene Circular Patch Nanoantenna for UWB THz application

Friday : 08-12-2017

Session XVII : 09:00-11:00, Venue – LHC 101

09:00-09:20 Invited Talk (16)	Praveen Kumar	Energy & Nano. Elect._146-ICN3I In _x Ga _{1-x} N nanostructures for white LED emitters and next generation solar cells
09:20-09:40 Invited Talk (17)	Braj Bhusan Singh Sukanta Kumar Jena Subhankar Bedanta	Energy & Nano. Elect._1047-ICN3I Spin Pumping in Nonmagnetic/ Ferromagnetic/ Nonmagnetic multilayer Structures
09:40-09:50 Oral (70)	Shailendra Kumar	Energy & Nano. Elect._51-ICN3I Surface Photovoltage and Photoelectron Spectroscopies of Nano Structure Semiconductors
09:50-10:00 Oral (71)	R. Rajasekar K. Kathirvel T. Shanmuharajan K. S. Pugazhvidivu R. Thangavel M. Malaidurai	Energy & Nano. Elect._67-ICN3I Influence of Calcium Titanate and Titanium Dioxide on The Voltage Generation Capacity of Silicon Solar Cells
10:00-10:10 Oral (72)	Anirban Maitra Bhanu Bhusan Khatua	Energy & Nano. Elect._340-ICN3I Fabrication of High-Performance All-Solid-State Asymmetric Supercapacitor Device

		Based on Polypyrrole Wrapped Cobalt Vanadium Oxide Hydrate and Graphene Nanoplatelets with Superior Cyclic Stability
10:10-10:20 Oral (73)	Sarbaranjan Paria Bhanu Bhusan Khatua	Energy & Nano. Elect._341-ICN3I Polyvinyl Chloride and ZnSnO ₃ Nanocubes Based Nanocomposite: A High Output Power and Durable Piezoelectric Nanogenerator
10:20-10:30 Oral (74)	Sumanta Kumar Karan Bhanu Bhusan Khatua	Energy & Nano. Elect._343-ICN3I Highly Robust Piezoelectric Nanogenerator Based on PVDF/AlO-rGO Nanocomposite with High Power Density and Energy Conversion Efficiency
10:30-10:40 Oral (75)	Uttam Saha Pradip K Maji Avijit Kumar Paul Thakohari Goswami Anurag Srivastava N Eswara Prasad	Energy & Nano. Elect._1140-ICN3I Graphene–inorganic complex metal oxide composites as superior supercapacitor electrode material

Friday : 08-12-2017

Session XVIII: 11:30-13:00, Venue – LHC 101

11:30-11:50 Invited Talk (18)	Subodh Kumar De	Energy & Nano. Elect._570-ICN3I Morphology Dependent Plasmon in Semiconductor Nanocrystals
11:50-12:00 Oral (76)	Bapun Barik Priyabrat Dash	Energy & Nano. Elect._969-ICN3I Solar light driven enhanced Photocatalytic activity of Graphene Oxide based Ternary Nanocomposite Decorated with Basil leaf Extracted ZnFe ₂ O ₄ and CeO ₂ Nanostructures
12:00-12:10 Oral (77)	Kanika Arora Saravanan Rajamani Mahesh Kumar Mukesh Kumar	Energy & Nano. Elect._1004-ICN3I Cost effective growth of β -Ga ₂ O ₃ on silicon substrate for solar-blind photodetector application
12:10-12:20 Oral (78)	Rohit Ranjan Srivastava Sanjay Kumar Srivastava Anchal Srivastava	Energy & Nano. Elect._1006-ICN3I Low temperature fast synthesis of Tin Oxide (SnO ₂) nanorods: Precursor for 2D layered Tin Disulfide (SnS ₂) growth
12:20-12:30 Oral (79)	U. C. Bind R. K. Dutta	Energy & Nano. Elect._1155-ICN3I Effect of surfactants and dopants on structural, morphological and electrochemical properties of CuO nanoparticles prepared by precipitation method

Friday : 08-12-2017

Session XIX : 09:00-11:00, Venue – LHC 102

09:00-09:20 Invited Talk (19)	S. K. Srivastava L. Piraux T. Hauet	Energy & Nano. Elect._328-ICN3I Bit Patterned Media: Future of Hard Disk Drive
09:20-09:40 Invited Talk (20)	Arnab Halder Dinesh Kumar Pyne Prosenjit Saha	Energy & Nano. Elect._804-ICN3I Graphene based Nanomaterials: Excellent materials for Optical Tuning
09:40-09:50 Oral (80)	K. R. Nemade M. S. Katore S. S. Yawale S. P. Yawale	Energy & Nano. Elect._495-ICN3I Room Temperature Operable CoFe ₂ O ₄ Film Based spin-Field Effect Transistor
09:50-10:00 Oral (81)	Ipsita Hazra Chowdhury Milan Kanti Naskar	Energy & Nano. Elect._519-ICN3I A facile synthesis of mesoporous hollow titania microspheres with excellent photodegradation property
10:00-10:10 Oral (82)	D. R. Lekshmi K.P. Surendran	Energy & Nano. Elect._567-ICN3I Screen Printable Ink of BiFeO ₃ Nanoparticles for Electronic Applications
10:10-10:20 Oral (83)	Aparupa Kar Nabamita Goswami Ardhendu Saha	Energy & Nano. Elect._612-ICN3I Long Range Surface Plasmon Polariton Induced Nonlinear Optical Bistability with Silver Nano Layer at 1550 nm
10:20-10:30 Oral (84)	Devika Laishram Kiran P Shejale Ritu Gupta Rakesh K Sharma	Energy & Nano. Elect._989-ICN3I Influence of loading different percentage HfO ₂ over spherical TiO ₂ nano-assembly

Friday : 08-12-2017

Session XX : 11:30-13:00, Venue – LHC 102

11:30-11:50 Invited Talk (21)	Neha Agnihotri	Energy & Nano. Elect._383-ICN3I Panchromatic Absorbers for Harvesting Solar Energy
11:50-12:00 Oral (85)	R M Pujahari M C Adhikary S K Ratha	Energy & Nano. Elect._1008-ICN3I 2D And 3D Screen Printed Metallization A New Innovative Approach For Multicrystalline Silicon Solar Cell
12:00-12:10 Oral (86)	T K Pathak V K Lakhani K G Vyas	Energy & Nano. Elect._1026-ICN3I

	C R Kathad K B Modi	Cation distribution governs photocatalytic degradation of herbicide 2,4-D by nanocrystalline cobalt chromite ferrites
12:10-12:20 Oral (87)	G. Naveen Kumar R. Parameshwaran V. Vinayaka Ram	Energy & Nano. Elect._1058-ICN3I Development of hybrid nano based PCM embedded cement mortar for building cooling applications – an Experimental Investigation
12:20-12:30 Oral (88)	Hari Raj Anjan Sil	Energy & Nano. Elect._1076-ICN3I Preparation of LiFePO ₄ /SWCNT composite for high Performance Lithium Ion Batteries
12:30-12:40 Oral (89)	Biologic	Energy & Nano. Elect._1156-ICN3I Electrochemical Application in the fields of energy

5. Theme: Sensors & Actuators

Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LHC 006

14:30-14:50 Invited Talk (1)	Sanghamitra Chatterjee	Sens. & Act._663-ICN3I Nanomaterial based electrochemical sensing for therapeutic and diagnostic applications: a promising future
14:50-15:00 Oral (1)	Kirti Rani	Sens. & Act._6-ICN3I Synthesis of BSA-MWCNTs Nanocomposite
15:00-15:10 Oral (2)	Shweta J. Malodea Nagaraj P. Shetti Raviraj M. Kulkarni	Sens. & Act._96-ICN3I Voltammetric detection and determination of mefenamic acid at Silver doped TiO ₂ nanoparticles modified electrode
15:10-15:20 Oral (3)	Suganya Subburaj Senthil K. Ponnusamy Jaya Chandran	Sens. & Act._147-ICN3I Activated Carbon/Graphene Composites as Chemical Sensors for Detection of Air Toxics
15:20-15:30 Oral (4)	Rutesh Savalia Sanghamitra Chatterjee	Sens. & Act._170-ICN3I Effortless devising of biosensor for sensitive determination of brucine in human physiology
15:30-15:40 Oral (5)	Sk Babar Ali Barnali Ghatak Nilava Debabhuti Satyaki Pal Prolay Sharma Bipan Tudu Rajib Bandyopadhyay	Sens. & Act._488-ICN3I Sensitive detection of β -Myrcene in mango using Ethyl cellulose modified Quartz Crystal Microbalance Sensor
15:40-15:50 Oral (6)	Alok Kumar Srivastava N S Neeraj Punam Awasthi Sanjai Kanojia Mohd Imamuddin Kingsuk Mukhopadhyay N Eswara Prasad	Sens. & Act._1136-ICN3I Silver nanoferns decorated carbon microfibers as flexible SERS substrate

Wednesday : 06-12-2017

Session II : 16:30-17:30, Venue – LHC 006

16:30-16:50 Invited Talk (2)	Pranjala Tiwari Ramesh Chandra Akash Katoch	Sens. & Act._1002-ICN3I ZnO nanofibers with Cuboid Shaped Grains for CO Gas Sensing Application
16:50-17:00 Oral (7)	Jyoti Katyal	Sens. & Act._44-ICN3I Comparative Study Between Plasmonic Materials and Nanostructures For Sensor And SERS Application
17:00-17:10 Oral (8)	Kamalika Sen Zarina Ansari	Sens. & Act._217-ICN3I Block Copolymer Mediated Facile Synthesis of Bimetallic Ni-Pd NPs for Sensing of Ethyl Paraben and Ciprofloxacin
17:10-17:20 Oral (9)	Shailesh Kumar Lokesh Kumar Tarikul Islam Kuldeep Kumar Raina	Sens. & Act._247-ICN3I Electrical Circuit Model of an Aged Ceramic Humidity Sensor
17:20-17:30 Oral (10)	K. Uthayarani G. Mangamma M. Chitra N. Rajasekaran N. Neelakandeswari E. K. Girija	Sens. & Act._956-ICN3I XRD, UV and morphological studies of zinc-tin-vanadium oxide nanocomposite and their ethanol sensing property at room temperature

Thursday : 07-12-2017

Session III : 10:00-11:00, Venue – LHC 101

10:00-10:20 Invited Talk (3)	Mrinal Pal	Sens. & Act._14-ICN3I Non-invasive Monitoring of Diabetes using Nanostructure Semiconductor Based Gas Sensor
10:20-10:30 Oral (11)	Baskar S V. R. Sarma Dhulipala	Sens. & Act._215-ICN3I Smart sensor system for monitoring human thermal condition using Montgomery approach-An experimental study
10:30-10:40 Oral (12)	Lata Sharma Bijayalaxmi Panda	Sens. & Act._294-ICN3I Non-enzymatic electrochemical sensing of 4-Nitrophenol using low-cost electroactive composites developed from industrial wastes
10:40-10:50 Oral (13)	Abhishek Kumar Soni R. S. Ningthoujam	Sens. & Act._311-ICN3I Lanthanide doped upconverting nanomaterials for optical temperature sensors

Thursday : 07-12-2017

Session IV : 11:30-13:00, Venue – LHC 101

11:30-11:50 Invited Talk (4)	Umesh Kumar Tiwari	Sens. & Act._1019-ICN3I Recent Advances in Enzyme Immobilization based Optical Fiber Biosensors
11:50-12:00 Oral (14)	Mahuya B. Banerjee Runu Banerjee Roy Bipan Tudu Rajib Bandyopadhyay Panchanan Pramanik	Sens. & Act._315-ICN3I Molecularly Imprinted Polymer Modified Quartz Crystal Microbalance Sensors for the Detection of Aromatic Hydrocarbons
12:00-12:10 Oral (15)	Hemanta Naskar Sudip Biswas Bipan Tudu Rajib Bandyopadhyay Panchanan Pramanik	Sens. & Act._330-ICN3I Electrochemical detection of Carvacrol using nitrogen doped graphene electrode
12:10-12:20 Oral (16)	Nagaraj P. Shetti	Sens. & Act._355-ICN3I Nanoparticles based electrochemical sensors
12:20-12:30 Oral (17)	Nirul Masurkar Leela M. R. Arava	Sens. & Act._369-ICN3I Real-time Detection of E-coli in water using atomic layer of suspended MoS ₂ FET based Technology
12:30-12:40 Oral (18)	Khushboo Jain Saswat Mohapatra Rakesh S. Moirangthem	Sens. & Act._423-ICN3I Designing of economical refractive index sensor using surface plasmon resonance modes in gold nanograting

Thursday : 07-12-2017

Session V : 14:30-16:00, Venue – LHC 101

14:30-14:50 Invited Talk (5)	Devasish Chowdhury	Sens. & Act._416-ICN3I Carbon nanomaterial based Fluorescence Sensor
14:50-15:00 Oral (19)	Pragya Singh Li-Lun Hu Tseung-Yuen Tseng Hsiao-Wen Zan	Sens. & Act._213-ICN3I Contrary annealing seed layer effect on highly sensitive (10ppb) ZnO-nanorods thin film based Nitric Oxide (NO) Gas sensor
15:00-15:10 Oral (20)	Neeraj Kumar Rajendra Nath Goyal	Sens. & Act._453-ICN3I A sodium dodecyl sulfate modified pyrolytic graphite sensor for determination of Telmisartan: an anti-hypertensive drug
15:10-15:20 Oral (21)	Vinod Belwanshi Anita Topkar	Sens. & Act._467-ICN3I Design optimization and simulation of a diamond based piezoresistive pressure sensor for high temperature application

15:20-15:30 Oral (22)	Keerthi G Nair P Biji	Sens. & Act._557-ICN3I High Performance, Room-Temperature H ₂ S Gas Sensor Using Graphene Quantum Dots Decorated, Ultra-Long, Heterojunction Silver Nanowires
15:30-15:40 Oral (23)	Nabeela Kallayi Reny Thankam Thomas Saju Pillai	Sens. & Act._594-ICN3I Nanocellulose Supported Ag System- A Versatile SERS Platform for Sensitive Detection of Analytes
15:40-15:50 Oral (24)	Anant Singh M Suresh Chandra S. Sharma Debasis Mondal Chirasree Roy Chaudhuri	Sens. & Act._982-ICN3I Optimization of Carbon Electrodes for Electrochemical Biosensors: Influence of Thickness on Redox Output

Thursday : 07-12-2017

Session VI : 16:30-17:30, Venue – LHC 101

16:30-16:50 Invited Talk (6)	Pragati Kumar Nupur Saxena Vinay Gupta	Sens. & Act._208-ICN3I CdS based nanocomposite thin films: An advance material for luminescence based temperature sensors
16:50-17:00 Oral (25)	Parvathy R Chandran Vipin V V Meghana Mary Thomas Saju Pillai	Sens. & Act._606-ICN3I Development and fabrication of core-shell microsphere based photonic crystal sensors for stimuli responsive applications
17:00-17:10 Oral (26)	Jayanta Mondal Suneel Srivastava	Sens. & Act._664-ICN3I Fabrication of Green, Low Cost, and Water Soluble Green Fluorescent Carbon Dots for Optical Sensing
17:10-17:20 Oral (27)	Deepak Sahu Priyaranjan Mohapatra Sarat K Swain	Sens. & Act._1141-ICN3I Ag/GO nanocomposites and Rhodamine B based fluorescent sensor for highly selective Hg ²⁺ detection

Thursday : 07-12-2017

Session VII : 10:00-11:00, Venue – LHC 102

10:00-10:20 Invited Talk (7)	Ruma Ghosh	Sens. & Act._239-ICN3I Role of Reduced Graphene Oxide in Improving the Efficiency of Resistive Gas Sensors
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10:20-10:30 Oral (28)	Bindu K Ajith K M Nagaraja H S	Sens. & Act._669-ICN3I Electrochemical properties of hydrothermally prepared Zinc ferrite nanoparticles and their application as chronoamperometric ethanol sensor
10:30-10:40 Oral (29)	Mahendra S. Pawar Dattatray J. Late	Sens. & Act._691-ICN3I SnSe ₂ Nanosheets for High-Performance Sensing applications
10:40-10:50 Oral (30)	Sakthi Swarrup J Ranjan Ganguli Giridhar Madras	Sens. & Act._693-ICN3I Studies on enhancing the actuation parameters of low frequency IPMC actuators

Thursday : 07-12-2017

Session VIII : 11:30-13:00, Venue – LHC 102

11:30-11:40 Oral (31)	Prajwal Chettri Archana Tiwari	Sens. & Act._597-ICN3I Silver nanoparticle-reduced graphene oxide composites as fluorescence “turn-off” sensor for the detection of Eriochrome Black T
11:40-11:50 Oral (32)	Karunakar Sahoo Biswajyoti Mohanty Jhasaketan Nayak	Sens. & Act._710-ICN3I Study of ultraviolet sensing properties of ZnO nanoparticles grown on cellulose fibers
11:50-12:00 Oral (33)	Shubhanwita Saha V. Yauvana Sandip Chakraborty Shubham Das Tuhin Das Dipayan Sanyal	Sens. & Act._877-ICN3I Synthesis and Characterization of Polyvinylidene-fluoride (PVDF) Nanofiber for Application as Piezoelectric Force Sensor
12:00-12:10 Oral (34)	Priyadarshi B. Kumar Mukesh Sethy Krishna Kant Pandey Animesh Chhotray Dayal R. Parhi	Sens. & Act._921-ICN3I A Sensor based Computer Vision Approach for Humanoid Navigation
12:10-12:20 Oral (35)	Siva Prakasam O Kare Koel Chaudhury Soumen Das	Sens. & Act._995-ICN3I Impedimetric sensing of low-level analyte concentration using MoS ₂ modified filter paper
12:20-12:30 Oral (36)	Hariharan Manoharan Dharani Balaji K. C. V. V. R. Sai	Sens. & Act._1010-ICN3I In-situ growth of seed mediated gold nanoparticles on a U-bent silica optical fiber for plasmonic applications
12:30-12:40 Oral (37)	J. Mohanraj R. Ajay Rakkesh P. Aruna S. Ganesan	Sens. & Act._1061-ICN3I Fabrication and Characterization of Graphene based Electrochemical Sensors from Natural Corn Cob Waste.

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Thursday : 07-12-2017

Session IX : 14:30-16:00, Venue – LHC 102

14:30-14:40 Oral (38)	Narendra Kumar Jitendra Singh	Sens. & Act._161-ICN3I Fabrication of Highly Selective Cobalt (II) Sensor
14:40-14:50 Oral (39)	Mamta Raj Rajendra N. Goyal	Sens. & Act._452-ICN3I Graphene nanoribbons and poly-bromocresol green based nanocomposite modified sensor and its application in voltammetric sensing of neurotransmitters
14:50-15:00 Oral (40)	Alfa Sharma Yogendra Kumar Parasharam Shirage	Sens. & Act._756-ICN3I Humidity Sensing of ZnSnO ₃ Nanomaterials and Investigation of Freundlich Adsorption Isotherm Model
15:00-15:10 Oral (41)	Sana Ansari M. Shahnawaze Ansari Neshtha Dev Soami P. Satsangee	Sens. & Act._763-ICN3I Electrochemical sensing of an anti-anginal drug at CeO ₂ nanoparticles modified glassy carbon electrode
15:10-15:20 Oral (42)	Vijay Kumar Singh Anchal Srivastava R. S. Tiwari	Sens. & Act._798-ICN3I Development of CVD Graphene based bio-sensing platform for sensitive detection of cancer biomarker
15:20-15:30 Oral (43)	Anil Kumar Ravi Kumar Rajesh Kashyap Rakesh Singh Mukesh Kumar Bala Prasad Dinesh Kumar	Sens. & Act._821-ICN3I Effect of chemical adsorption of oxygen gas on the electronic properties of n-type semiconductor material for gas sensing application
15:30-15:40 Oral (44)	Brij Bansh Nath Anchal Atul Kumar Verma Preetam Singh Ram Pyare	Sens. & Act._845-ICN3I Methane gas sensors based on thin films using Barium stannate
15:40-15:50 Oral (45)	Animesh Chhotray Abhijeet Singh Chouhan Krishna Kant Pandey Priyadarshi Biplab Kumar Dayal R. Parhi	Sens. & Act._1020-ICN3I Data Acquisition by Multi-rate Sensor Fusion using Kalman Filter in Two Wheeled Self Balancing Robot

15:50-16:00 Oral (46)	Sudha Srivastava	Sens. & Act._1098-ICN3I Biosensor Challenges and Hurdles: Biomolecules and Nanomaterials
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Thursday : 07-12-2017

Session X : 16:30-17:30, Venue – LHC 102

16:30-16:40 Oral (47)	Nirma Maurya Ashok Kumar Singh	Sens. & Act._73-ICN3I Selective and Sensitive Sensor for CN ⁻ , Based on Cobalt (II) Complex with Logic Gate and Antimicrobial Application
16:40-16:50 Oral (48)	Neetu Yadav Ashok Kumar Singh	Sens. & Act._151-ICN3I A New Carbohydrazide Based Sensor for Cu(II) and Hg(II) Ions
16:50-17:00 Oral (49)	Pravin Tarlekar Sanghamitra Chatterjee	Sens. & Act._434-ICN3I A novel voltammetric sensor for the nano level determination of non-steroidal anti- inflammatory drug utilizing single walled carbon nanotubes
17:00-17:10 Oral (50)	N. H. Bansod G. N. Chaudhari A. B. Bodade	Sens. & Act._730-ICN3I Synthesis and Characterization of PVA-Cu doped ZnO nanocomposite: a nanocomposite for glucose biosensor.
17:10-17:20 Oral (51)	Amit Saraiya Alok Srivastava Kingsuk Mukhopadhyay N Eswara Prasad	Sens. & Act._1146-ICN3I Metal Oxide based Gas Sensor for Defence Applications
17:20-17:30 Oral (52)	Suresh Panchal S Abraham Sampson Apoorva Phadke G Unnikrishnan Suwarna Datar	Sens. & Act._1149-ICN3I Development of Quartz Tuning Fork based Sensors for Volatile Organic Compound (VOC) Detection

6. Theme: Diverse Applications

Wednesday : 06-12-2017

Session I : 14:30-16:00, Venue – LHC 103

14:30-14:50 Invited Talk (1)	Tanvir Arfin	Div. Appl. 297-ICN3I Clean water through advanced and affordable materials
14:50-15:00 Oral (1)	Shravan K. Yadav V. Vasu Uday Kumar Paliwal	Div. Appl. 11-ICN3I Experimental Study on Thermo-physical Properties of Nano-fluids based on Copper Nanoparticles
15:00-15:10 Oral (2)	Priyanka S. Gore Vaibhav N. Gore Jagdeep M. Kshirsagar	Div. Appl. 241-ICN3I Heat Transfer Enhancement with Alumina Nanofluid and Twisted Tapes in Shell and Tube Heat Exchanger
15:10-15:20 Oral (3)	Hitesh Kumar Singh Kunal V. Yeole Shashank T. Mhaske	Div. Appl. 290-ICN3I Synthesis and characterization of layer-by-layer assembled Magnesium zinc molybdate nanocontainer for anticorrosive application
15:20-15:30 Oral (4)	Kundan Kumar Anirban Chowdhury	Div. Appl. 292-ICN3I Facile surfactant-free synthesis of CuO nanorods and its applications in waste water treatment
15:30-15:40 Oral (5)	Bhaskar C. Kandpal Jatinder Kumar Hari Singh	Div. Appl. 402-ICN3I Performance parameters optimization of electric discharge machining of AA 6061/10% Al ₂ O ₃ AMMC using utility concept
15:40-15:50 Oral (6)	Sushree Pattnaik Snehanjali Behera Balamati Choudhury Mamata Mohapatra	Div. Appl. 943-ICN3I Preparation of Mn-Zn ferrite using oxalate route and their possible Aerospace Applications

Wednesday : 06-12-2017

Session II : 16:30-17:30, Venue – LHC 103

16:30-16:50 Invited Talk (2)	Uday Chakravarty	Div. Appl. 312-ICN3I
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		Nanoplasmonics with Ultra-short High Intensity Laser Pulses
16:50-17:00 Oral (7)	Soniya Chaudhary Sanjeev A. Sahu Abhinav Singhal	Div. Appl._38-ICN3I Surface Waves Propagation in FGPM/Initially Stressed Piezoelectric Substrate
17:00-17:10 Oral (8)	Arshiya Tarannum Tanvir Arfin	Div. Appl._295-ICN3I Removal of fluoride by adsorption on Zinc oxide alumina composite
17:10-17:20 Oral (9)	Shyam Babu Huang Yingkai Shrawan Mishra	Div. Appl._304-ICN3I Incommensurate Skyrmionic Phase in Triangular Spin Lattice of Helimagnet NiBr ₂
17:20-17:30 Oral (10)	Shiva Singh Subrata Kumar Ghosh	Div. Appl._325-ICN3I Experimental investigation for effect of surfactants in stability and thermal conductivity of MWCNT-water based nanofluids.

Wednesday : 06-12-2017

Session III : 14:30-16:00, Venue – LHC 104

14:30-14:50 Invited Talk (3)	S. Gnanasundaram Sujata Mandal Moumita Mukherjee Bhabendra Nath Das	Div. Appl._451-ICN3I Injection Molded Microcellular Polyurethane Shoe Soles Blown with Nanoclay
14:50-15:00 Oral (11)	Naveen Kumar Gupta Arun Kumar Tiwari Subrata Kumar Ghosh	Div. Appl._319-ICN3I Effects of TiO ₂ /H ₂ O nanofluid application on thermal performance of mesh wick heat pipe
15:00-15:10 Oral (12)	Bigyan Ranjan Jali	Div. Appl._349-ICN3I Recognition of a Bromide Ion by the Protonated Form of 2-(1H-Imidazol-2-ylthio)-3-methylnaphthalene-1,4-dione
15:10-15:20 Oral (13)	Akash Raj Nirav M. Parsana Amitkumar R. Patel	Div. Appl._361-ICN3I Experimental Investigation for Enhancement of Heat Transfer in Automobile Radiator By Using Different Nanofluids
15:20-15:30 Oral (14)	Beant Kaur Billing Prabhat K. Agnihotri Narinder Singh	Div. Appl._373-ICN3I Development of Carbon Nanotube and Silver nanoparticles based Branched Nano-hybrid: Modulation in Thermal Conductivity
15:30-15:40 Oral (15)	Jitendra Yadav Radha Raman Mishra Apurbba Kumar Sharma	Div. Appl._394-ICN3I Processing of Magnesium Matrix Composites for Aerospace Applications using Microwave Energy

15:40-15:50 Oral (16)	Somesh Bhambi Vijay K. Agarwal	Div. Appl. 1113-ICN3I Sub Atmospheric Pool Boiling And Experimental Heat Transfer Of Alumina Nanofluids
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Wednesday : 06-12-2017

Session IV : 16:30-17:30, Venue – LHC 104

16:30-16:50 Invited Talk (4)	Harpreet Singh Hiralal Bhowmick	Div. Appl. 507-ICN3I Influence of Nanoclay on the Thermophysical Properties and Lubricity Characteristics of Mineral Oil
16:50-17:00 Oral (17)	Vrushali R. Kinhikar G. S. Natarajan	Div. Appl. 320-ICN3I A Comparative Study of Removal of Nickel (II) & Copper (II) Using Granular Activated Carbon.
17:00-17:10 Oral (18)	T. Chinnadurai N. Prabakaran M. Karthigai Pandian N. Mohan Raj	Div. Appl. 414-ICN3I Differential Scanning Calorimetry analysis of Ultrasonically Welded Polypropylene with Different Heating Ranges
17:10-17:20 Oral (19)	Amol F. Niwalkar Jagdeep M. Kshirsagar Kishor Kulkarni	Div. Appl. 441-ICN3I Experimental investigation of heat transfer enhancement in shell and helical coiled tube heat exchanger using SiO ₂ / water nanofluids
17:20-17:30 Oral (20)	Delme Winson Balamati Choudhury Raveendranath U Nair	Div. Appl. 468-ICN3I Design and Optimization of Ultra Wideband Radar Absorber using Hybrid of Metamaterial and Graphene

Thursday : 07-12-2017

Session V : 10:00-11:00, Venue – LHC 003

10:00-10:20 Invited Talk (5)	Brajesh Pandey Neeru Bhagat	Div. Appl. 723-ICN3I Study of surface strain and the direction of magnetization at the interface of Co/Au layers
10:20-10:30 Oral (21)	M. S. Katore Kailash R. Nemade S. S. Yawale S. P. Yawale	Div. Appl. 493-ICN3I Preparation of polyaniline/(GO and TiO ₂) composites for electromagnetic radiation shielding application
10:30-10:40 Oral (22)	T. Kannan K. Gangadhar P. Jayalakshmi	Div. Appl. 531-ICN3I Effects of Newtonian Heating on Magnetohydrodynamic Boundary Layer

		Flow of Nanofluids over a Stretching Cylinder
10:40-10:50 Oral (23)	Swati Agrawal V K Gupta P K Kankar	Div. Appl. 580-ICN3I Wave Propagation in Single Walled Carbon Nanotube using Modified Couple Stress Theory

Thursday : 07-12-2017

Session VI : 11:30-13:00, Venue – LHC 003

11:30-11:50 Invited Talk (6)	Kalyan Mitra	Div. Appl. 1138-ICN3I Nano Only In Ship's Hull Paints or Would it be Applicable To All Ships Machinerics
11:50-12:00 Oral (24)	Uthradevi Kannan Ayush Garg Adarsh Srivastav P C Sabumon S. M. Maliyekkal	Div. Appl. 572-ICN3I Graphene-Silver Coated Super Sand (GSCS) for Disinfection of Water
12:00-12:10 Oral (25)	Mississippi M. Bhunia Kalyan K. Chattopadhyay Paramita Chattopadhyay	Div. Appl. 586-ICN3I Enhanced heat transfer properties of RGO-TiO ₂ based Ethelene Glycol nanofluids
12:10-12:20 Oral (26)	Brahmi Das Biswajit Das Nirmalya S. Das Subrata Sarkar Kalyan K. Chattopadhyay	Div. Appl. 625-ICN3I Ga ₂ O ₃ nanostructures for wastewater treatment: Morphology induced degradation of methyl orange
12:20-12:30 Oral (27)	Ashish D. Urade Vishwas S. Deshpande	Div. Appl. 630-ICN3I Precision Finish Cut EDM Machining Characteristics as Industrial Tool Room Requisite
12:30-12:40 Oral (28)	Rituparna Chatterjee Subhajit Saha Kalyan K. Chattopadhyay	Div. Appl. 632-ICN3I Structural and Optical Properties of Tb ³⁺ doped BaAl ₂ O ₄ Nanophosphors for Solid State Lighting Applications

Thursday : 07-12-2017

Session VII : 14:30-16:00, Venue – LHC 003

14:30-14:40 Oral (29)	Swarnima Singh Anup Kumar Keshri	Div. Appl. 724-ICN3I Plasma Sprayed Graphene Nanoplatelets Reinforced Hydroxyapatite Coating with Enhanced Mechanical Properties
14:40-14:50 Oral (30)	Aakash Bhattacharjee Harish Bishwakarma	Div. Appl. 740-ICN3I

	Hari N. S. Yadav Bharat T C S. Mohanty Purushottam Kr Singh Alok Kr Das	Optical characterization of tungsten doped CuO nanoparticles produced through Micro-EDM
14:50-15:00 Oral (31)	Vikas Kukshal Amar Patnaik I. K. Bhat	Div. Appl._766-ICN3I Phase Evolution And Hardness of AlCr _{1.5} CuFeNi ₂ Co _x High- Entropy Alloy
15:00-15:10 Oral (32)	Varadala Ananda Babu Gurugubelli Swami Naidu Bandaru Sateesh	Div. Appl._768-ICN3I Evaluation of microstructure, mechanical properties and wear behaviour of AA 5083 semi circular and circular billets processed by equal channel angular extrusion
15:10-15:20 Oral (33)	Ravindra Pratap Singh Arun Kumar Tiwari	Div. Appl._780-ICN3I Recent Developments In Thermal Conductivity of Normal Nanofluids And Hybrid Nanofluids: A Review
15:20-15:30 Oral (34)	K A Shuhailath S Ananthakumar	Div. Appl._814-ICN3I CNSL Resin Modified Sol Gel Al ₂ O ₃ Treated Hydrophobic Textile Membrane for Selective Oil-Water Filtration
15:30-15:40 Oral (35)	Anil Arya A. L. Sharma	Div. Appl._859-ICN3I Effect of Salt Concentration on Dielectric Relaxation and Ion Dynamics in Blend Solid Polymer Electrolyte

Thursday : 07-12-2017

Session VIII : 16:30-17:30, Venue – LHC 003

16:30-16:40 Oral (36)	Aashima Bangia Rashmi Bhardwaj Meenu Chawla	Div. Appl._381-ICN3I Bifurcation Analysis of Single-Walled Carbon Nanotube (SWCNT)
16:40-16:50 Oral (37)	Saurabh Parmar Bishakha Ray Suwarna Datar	Div. Appl._657-ICN3I Modified Graphene as a Conducting Paint for EMI Shielding
16:50-17:00 Oral (38)	Navneet Kaur S. D. Tiwari	Div. Appl._988-ICN3I Magnetic Properties of Iron Storage Protein Ferritin
17:00-17:10 Oral (39)	Ankush Raina Ankush Anand	Div. Appl._1007-ICN3I Friction and wear characteristics of diamond nanoparticles in PAO base oil
17:10-17:20 Oral (40)	Sajitha Sasidharan Nitin Chaudhary Vibin Ramakrishnan	Div. Appl._1065-ICN3I Hybrid magnetic organic-inorganic assemblies for Chromium removal

Friday : 08-12-2017

Session IX : 09:00-11:00, Venue – LHC 006

09:00-09:20 Invited Talk (07)	Pradip Kumar	Div. Appl. 153-ICN3I Graphene-based materials for multifunctional applications
09:20-09:40 Invited Talk (08)	Pulak K Ghosh	Div. Appl. 909-ICN3I Transport properties of Janus particles in corrugated channels
09:40-09:50 Oral (41)	Ashwani Kumar Amar Patnaik I.K Bhat	Div. Appl. 98-ICN3I Investigation of titanium metal powder in 7075 aluminium alloy composites under dry sliding wear condition
09:50-10:00 Oral (42)	Malkeet Singh Harpreet Singh	Div. Appl. 234-ICN3I Modulation assisted drilling of Inconel-718 Ni-based superalloy
10:00-10:10 Oral (43)	Gonnabattula Avinash Vyshyaraju Harika Challuri Sandeepika Neha Gupta	Div. Appl. 496-ICN3I Pore size control in Aluminium Foam
10:10-10:20 Oral (44)	Prabhakar Zainith Niraj Kumar Mishra	Div. Appl. 620-ICN3I Numerical analysis of heat transfer using different nano particles in non-Newtonian fluid for a concentric tube.
10:20-10:30 Oral (45)	Aniket Kumar Mahesh Adhikari	Div. Appl. 666-ICN3I Low Power Implementation of Telecommunication switching architecture for network
10:30-10:40 Oral (46)	P Logesh Kumar Madivala G. Basavaraj	Div. Appl. 975-ICN3I Film climbing during coalescence of particle coated drops –Role of Particle shape Anisotropy

Friday : 08-12-2017

Session X : 11:30-13:00, Venue – LHC 006

11:30-11:50 Invited Talk (09)	Pooja D. Anupma Thakur Praveen Kumar	Div. Appl. 145-ICN3I Functionalized Carbon Quantum Dots for Water Pollutants Monitoring: Lab to Land
11:50-12:10 Invited Talk (10)	M. Anto Godwin Gadhadar Reddy Girish M Gouda	Div. Appl. 332-ICN3I Preliminary studies on Single Walled Carbon Nanotube Coating

12:10-12:20 Oral (47)	Chandra Has Rakhi Dhuriya P. Sunthar	Div. Appl._126-ICN3I A Simple Microfluidic Device for Generating Solute Concentration Gradients
12:20-12:30 Oral (48)	Archini Paruthi Superb K Misra	Div. Appl._333-ICN3I Spin-Spin relaxation time as a metric to assess reactivity of CuO nanoparticles
12:30-12:40 Oral (49)	S. Mohammed Ashik P. Bhuvanesh S. Ponnuvel	Div. Appl._619-ICN3I Effect of tool geometries on surface roughness of drilled holes in MWCNTs filled Epoxy/Glass fabric polymer nanocomposite
12:40-12:50 Oral (50)	Disha Khandare Somanth Mukherjee	Div. Appl._679-ICN3I A Review of Metal oxide Nanomaterials for Fluoride decontamination from Water Environment