



# International Conference on Frontiers in Materials for Technological Applications (FIMTA-2022)

## DAY 1 (August 03, 2022)

Time	Session Details
8:00– 9:00	Registration
9:00– 10:00	<p style="text-align: center;"><b>Inauguration</b> Venue: SSB Hall</p> <p><b>Opening Remarks</b> <b>Prof. Suddhasatwa Basu, Director</b> CSIR-Institute of Minerals &amp; Materials Technology (IMMT), Bhubaneswar</p> <p><b>Chief Guest</b> <b>Prof. Karuna Kar Nanda, Director</b> Institute of Physics (IOP), Bhubaneswar</p> <p><b>Inaugural Address &amp; Lecture</b> <b>Prof. Tanusri Saha Dasgupta, Director</b> S. N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata Title: <i>Quantum Materials by Computation: Challenges &amp; Opportunities</i></p>
<b>Session – I (Venue: SSB Hall)</b>	
10:00 - 10:20	<b>Tea Break</b>
10:20 - 10:50	<p><b>Invited lecture</b> <b>Prof. Vivek Polshettiwar</b> TIFR, Mumbai, India Title: <i>Nanomaterials for Carbon Dioxide Utilization Technologies</i></p>
10:50 - 11:20	<p><b>Invited lecture</b> <b>Prof. V. Subramanian</b> IIT Madras, India Title: <i>Magnetolectric Composites for Energy Harvesting Applications</i></p>
11:20 - 11:30	<b>Break (photo session - Main building front)</b>
<b>Session – II (Venue: SSB Hall)</b>	
11:30 - 12:15	<p><b>Keynote lecture (online)</b> <b>Prof. Sudhagar Pitchaimuthu</b> Heriot-Watt University, Riccarton, UK Title: <i>Light-driven Materials for Sustainable Photoelectrochemical Solar-to-Hydrogen Conversion: Fundamentals and Challenges</i></p>
12:15 - 12:45	<p><b>Invited lecture</b> <b>Prof. T. N. Narayanan</b> TIFR, Hyderabad, India Title: <i>Engineering Interface and Morphology of Two-Dimensional Materials for Energy Devices</i></p>
12:45 - 13:15	<p><b>Invited lecture</b> <b>Prof. Kaushik Chatterjee</b> IISc, Bangalore, India Title: <i>3D Printing of Biomaterials for Orthopaedic Applications</i></p>
13:15 - 14:30	<b>Lunch Break (Guest House Lounge)</b>



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## Session – III (Venue: SSB Hall)

14:30 -15:00	<b>Special lecture (online)</b> <b>Prof. Kanishka Biswas</b> JNCASR, Bangalore, India <i>Title: Enhanced Atomic Ordering Leads to Ultra-High Thermoelectric Performance</i>
15:00 -15:30	<b>Invited lecture</b> <b>Prof. Rabindra Kumar Behera</b> NIT Rourkela, India <i>Title: Self-assembled Ferritin Protein Nanocage: More than Just an Iron Reservoir</i>
15:30 - 16:15	<b>Contributory lectures</b> <b>Dr. Sudip Maity</b> CSIR-CIMFR, Dhanbad, India <i>Title: Coal ash and Overburden Rocks of Coal Mines as an Alternative Resource of Rare Earth Elements (REEs) for synthesis of Advanced Materials</i>
	<b>Dr. Alok Ranjan Paital</b> CSIR-CSMCRI, Bhavnagar, India <i>Title: Functionalized Materials as a Single Platform for Simultaneous Detection and Removal of Toxic Analytes</i>
	<b>Dr. Sanjay Prasad</b> CSIR-NPL, New Delhi, India <i>Title: Zinc Powder Nanomaterial from Zinc Dross Waste</i>
16:15 - 16:45	<b>Tea Break</b>

## Session – IV (Venue: SSB Hall)

16:45 - 17:30	<b>Keynote lecture (online)</b> <b>Prof. Sara Bals</b> University of Antwerp, Belgium <i>Title: 3D Characterization of Nanomaterials under Relevant Conditions by Electron Tomography</i>
17:30 - 18:15	<b>Keynote lecture (online)</b> <b>Prof. Stephen Pennycook</b> University of Tennessee, USA <i>Title: Engineering Functional Materials via Atomic-resolution Microscopy</i>
19:30 onwards	<b>Banquet Dinner (Angan Convention Center, Patia)</b>



# International Conference on Frontiers in Materials for Technological Applications (FIMTA-2022)

## DAY 2 (August 04, 2022)

Time	Session Details
8:00– 9:00	Registration
<b>Session – I (Venue: SSB Hall)</b>	
9:00 - 9:30	<b>Keynote lecture (online)</b> <b>Prof. Krishnaswamy Nandakumar</b> Louisiana State University, USA <i>Title: Perspectives on Manufacturing Innovations in Chemical Engineering</i>
9:30 - 10:15	<b>Keynote lecture (online)</b> <b>Prof. Greg Herman</b> Oregon State University, USA <i>Title: Development and Applications for Transparent Field Effect Sensors</i>
10:15 - 10:45	<b>Invited lecture</b> <b>Prof. Subhankar Bedanta</b> NISER, Bhubaneswar, India <i>Title: Organic spintronics- a new playground for exciting physics</i>
10:45 - 11:15	<b>Special lecture</b> <b>Dr. Binoy K. Saikia</b> CSIR-NEIST, Jorhat, India <i>Title: Indigenous Technology for Efficient and Large-scale Production of Biocompatible Carbon Quantum Dots</i>
11:15- 11:30	<b>Tea Break</b>
<b>Session – II (Venue: SSB Hall)</b>	
11:30 - 12:15	<b>Keynote lecture (online)</b> <b>Prof. Li-Chyong Chen</b> NTU Taiwan <i>Title: Recent Trends in Artificial Photosynthesis: Atomistic Insights of Selective Two-dimensional Nano-photocatalysts</i>
12:15 - 12:45	<b>Special lecture</b> <b>Dr. Kinshuk Dasgupta</b> BARC Mumbai, India <i>Title: Graphene and Graphene Derivatives: Technology and Applications</i>
12:45 –14:00	<b>Lunch Break (Guest House Lounge)</b>



# International Conference on Frontiers in Materials for Technological Applications (FIMTA-2022)

## Session - III

<b>14:00 - 16:30</b>	<b>Oral/Poster parallel sessions</b>
	<b>Oral Presentations (Venue: SSB Hall)</b> <b>O-1: Mehak Ahuja, CSIR-NPL; Naphthalenediimide derivative based Paper Strip Chemical Sensor for the Visual Detection of Acids</b> <b>O-2: Athira S. J., Shiv Nadar University; First-principles Computational Study of Adsorption of Acetone on V4C3Tx Mxenes</b> <b>O-3: Surya Kanta Ghadei, CSIR-IMMT; Hydrophobic and Oleophilic Eggshell-derived Calcium carbonate/PU foam for Oil-water Recovery: Waste for Environmental Remediation</b> <b>O-4: Raghunath Sahoo, IIT-Madras; PVP-Controlled Synthesis of Silver Nanowires and Their Effect in Transparent EMI Shielding Application</b> <b>O-5: Dr. Suvasmita Rath, Utkal University; Exploring the Nanostructure in Arsenic album and its role in Immunomodulation</b> <b>O-6: Bibekananda Nayak, CSIR-IMMT; Modulation of PVDF/BCZT Polymer Composite with Ceramic content and Fabrication of Piezoelectric Nanogenerator</b> <b>O-7: Dr. Rajendra Kurapati, IISER Trivandrum; Biological Degradation of Graphene and Emerging 2D Materials</b> <b>O-8: Sk Jamaluddin, NISER BBSR; Extrinsic to Intrinsic Mechanism crossover of Anomalous Hall effect in Ir doped MnPt(Ir)Sn Heusler system</b> <b>O-9: Sheetal Bhatta, CSIR-IMMT; Tailoring the Interfacial polarization in TiO<sub>2</sub> nanoparticle based Piezoelectric Nanogenerator for Ubiquitous Multi-stimuli Sensing</b> <b>O-10: Tanuja Singh, Shiv Nadar University; Tungsten disulfide (WS<sub>2</sub>) Nanosheets incorporated Laser-induced Graphene Electrodes for Hydrogen Evolution Reaction</b> <b>O-11: Niharika Kumar, CSIR-IMMT; Surface and Interface Engineering of 2-D Photocatalyst for Photocatalytic CO<sub>2</sub> Reduction</b> <b>O-12: A. Rija, CSIR-IMMT; Photocatalytic Reduction of Cr (VI) by ZnO/rGO in Aqueous Medium under Sunlight Irradiation: Effects of Initial Concentration of Cr (VI), pH, and Catalyst Amount</b>
<b>16:30 - 16:45</b>	<b>Tea Break</b>
<b>Session – IV (Venue: SSB Hall)</b>	
<b>16:45 - 17:30</b>	<b>Keynote lecture (online)</b> <b>Prof. Gilbert Daniel Nessim</b> Bar Ilan University, Israel Title: <i>The Versatility of CVD to Synthesize 1D and 2D Nanostructures: Carbon Nanotubes and Transition Metal Chalcogenides for Electronic and Electrochemical Applications</i>
<b>17:30 - 18:15</b>	<b>Keynote lecture (online)</b> <b>Prof. Orlando Auciello</b> UT Dallas, USA Title: <i>Transformational Integration of Multifunctional Nanolaminate High-k Dielectric/ Piezoelectric/ Ultrananocrystalline Diamond (UNCDTM)/ Crystalline Diamond Films for New Generations of High-Tech and Implantable Medical Devices / Prostheses</i>
<b>19:30 onwards</b>	<b>Dinner (Guest House Lounge)</b>



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## DAY 3 (August 05, 2021)

Time	Session Details
<b>Session – I (Venue: SSB Hall)</b>	
9:00 - 9:30	<b>Keynote lecture (online)</b> <b>Prof. Rahul Banerjee</b> IISER Kolkata, India <i>Title: Covalent Organic Frameworks and Reticular Nano-Synthesis</i>
9:30 - 10:15	<b>Keynote lecture (online)</b> <b>Prof. S. C. Edman Tsang</b> University of Oxford, UK <i>Title: Induced Active Sites over 'Rigid' Materials</i>
10:15 - 10:45	<b>Invited lecture</b> <b>Prof. Dinesh Kabra</b> IIT Bombay, India <i>Title: Triplet Excitons in Organic and Halide Perovskite Semiconductors</i>
10:45 - 11:00	<b>Tea Break</b>
<b>Session – II (Venue: SSB Hall)</b>	
11:00 - 11:30	<b>Invited lecture</b> <b>Dr. Ajaya Nayak</b> NISER Bhubaneswar, India <i>Title: Room Temperature Magnetic Skyrmion Bubbles in Centrosymmetric Magnet</i>
11:30 - 12:00	<b>Invited lecture</b> <b>Dr. Sukhendu Mandal</b> IISER Thiruvananthapuram, India <i>Title: New Advances in Atomically Precise Silver Nanoclusters</i>
12:45 - 14:00	<b>Lunch Break (Guest House Lounge)</b>
<b>Session – III (Venue: SSB Hall)</b>	
14:00 - 16:30	<b>Oral/ Poster parallel sessions</b>  <b>Oral presentations (Venue: SSB Hall)</b> <b>O-13: Sonia Saini, IIST, Trivandrum; Low Reflectance of CNTs and CNS based Thin film Coatings for Stray Light Control Space Applications</b> <b>O-14: Dr. Binaya K. Sahu, NISER BBSR; Optimizing a Magneto-plasmonic Platform for Optical Sensing using Au-Ge System</b> <b>O-15: Amrita Ahuja, Shiv Nadar University; Investigating 2-1 Janus MXenes for their Application in Supercapacitors</b> <b>O-16: P. Rambabu, Guru Ghasidas Vishwavidyalaya; Intrinsic Anomalous (Hall, Nernst) effects in Half-metallic Co<sub>2</sub>ZrAl from First Principles Calculations</b> <b>O-17: Dr. Himadri Tanaya Das, Utkal University; Reinforcing the Electrochemical Performance of Hybrid Energy-storage Device with Magnetic Field Using Magnetic Electrodes</b>



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	<p><b>O-18: Subhajit Kar, IISER, Berhampur, Critical Optimization of Phosphorus Functionalized Carbon Nanomaterials for Metal-Free Solar Hydrogen Production and Simultaneous Organic Transformation</b></p> <p><b>O-19: Anju Kumari Das, Tribhuvan University, Nepal; Isolation and Corrosion Inhibition Efficiency of Mahonia nepalensis on Mild Steel</b></p> <p><b>O-20: Goverdhan Reddy Turpu, Guru Ghasidas Vishwavidyalaya; Photodegradation of Methylene Blue Dye by Hydrothermal prepared <math>V_2O_5</math> – rGO composite</b></p> <p><b>O-21: Dola Chakrabartty, NISER, BBSR; Room Temperature Skyrmion Lattice in a Hexagonal Centrosymmetric Kagome Magnet</b></p> <p><b>O-22: Nishtha Vats, IIT Jodhpur; Micromagnetic simulation on Domain structure of Strontium Hexaferrite (<math>SrFe_{12}O_{19}</math>)</b></p> <p><b>O-23: Ananda Babu, Institute of Nano Science and Technology, Mohali; 3D Printing Enabled Voice Recognition Sensor</b></p>
<b>16:30 - 16:45</b>	<b>Tea Break</b>
<b>16:45 - 17:30</b>	<p><b>Valedictory session and Prize distribution</b> <b>Venue: SSB Hall</b></p> <p><b>Valedictory Address</b> <b>Prof. Suddhasatwa Basu, Director, CSIR-IMMT, Bhubaneswar</b></p> <p><b>Chief Guest</b> <b>Dr. P. C. Padhi, Principal, CIPET, Bhubaneswar</b></p>



# International Conference on Frontiers in Materials for Technological Applications (FIMTA-2022)

## Poster Sessions

Venue: Pathani Samanta e-Learning Centre (IMMT Library)

4<sup>th</sup> August (15:00 – 16:30)

P-1	<b>Tanmayee, Shiv Nadar University</b> , Ni implantation induced controlled defect engineering in TiO <sub>2</sub> thin films
P-2	<b>Vipin V K, Sree Narayana College Kannur</b> , Structural and Dielectric properties of Co doped La <sub>0.67</sub> Ca <sub>0.33</sub> Mn <sub>1-x</sub> CoxO <sub>3</sub> nanoparticles
P-3	<b>Ugrabadi Sahoo, NIT Rourkela</b> , Silver nanoparticle decorated g-C <sub>3</sub> N <sub>4</sub> /MIL-53(Fe) nanocomposite: A pre-eminent visible-light-driven photocatalyst towards multimodal photocatalytic applications.
P-4	<b>Kajal Sundaray, CSIR-IMMT</b> , Biophysical interaction between self-assembled DNA polyhedrons with bovine liver catalase
P-5	<b>Monica Mahapatra, Utkal University</b> , Polyelectrolyte Complex Biomaterials for Antibacterial Resistant Klebsiella pneumonia strain MM-1
P-6	<b>Partha Sarathi Nial, CSIR-IMMT</b> , Impact of order of nucleotides in nucleic acids: (CG) <sub>n</sub> DNA are sensitive for Cerium induced B-to-Z transition
P-7	<b>Sampat Narayan Satapathy, CSIR-IMMT</b> , Formation of G-Quadruplex in the presence of Low Concentration of Praseodymium
P-8	<b>M. Mukherjee, CSIR-IMMT</b> , Disinfection and improvement in germination of paddy seeds by dielectric barrier discharge plasma treatment
P-9	<b>Hrudya Radhakrishnan, HBNI-IGCAR</b> , Influence of growth duration on the physical properties of vertically aligned ZnO nanorods
P-10	<b>Jithin P V, Nirmalagiri College, Kannur University</b> , One-step synthesis and optical properties of multi-phase Ni-doped ZrO <sub>2</sub> nanoparticles
P-11	<b>Manav Raj Kar, ICT-IOCL, Bhubaneswar</b> , Impact of Zn-doping on the composition, stability, luminescence properties of silica coated all-inorganic cesium lead bromide nanocrystals and their biocompatibility
P-12	<b>Mita Dutta, IIT Kharagpur</b> , Self-healable metallo gel for selective dye adsorption
P-13	<b>Nayan Hiteshkumar Nandha, CSIR-CSMCRI</b> , Asymmetric hollow fiber membrane technology with inorganic-organic hybrid CO <sub>2</sub> -philic top layer for CO <sub>2</sub> /N <sub>2</sub> separation.
P-14	<b>Parveen, CSI-CSIO</b> , Aptasensor using Interface for Cortisol sensing
P-15	<b>Pranay Kumar, CSIR-CSMCRI</b> , Sustainable dye-salt recovery and water reclamation from dye wastewater with reusable flux-recoverable hollow fiber of almost 100% flux recovery
P-16	<b>R Kumaran, IIT Madras</b> , Absorption enhanced EMI shielding using silver and three dimensional porous architected reduced graphene oxide in polybenzoxazine composites
P-17	<b>Remya Krishnan M, Sree Narayana College Kannur</b> , Study on the Structural and Photoluminescence Properties of Zr Doped CeO <sub>2</sub> Nanoparticles
P-18	<b>Reshma T S, HBNI-IGCAR</b> , Selective Adsorption and Fast Photocatalytic Degradation of Mixture of dyes by Uncapped SnO <sub>2</sub> QDs
P-19	<b>Sagar Mallick, CSIR-IMMT</b> , Control of 1T, 2H phase of MoS <sub>2</sub> by using the CVD method
P-20	<b>Shruti Rialach, Central University of Himachal Pradesh</b> , Structural and magnetic characterization of BaFe <sub>2</sub> O <sub>4</sub> and SrFe <sub>2</sub> O <sub>4</sub> nanoparticles for magnetic hyperthermia
P-21	<b>Smaranika Ray, ICT-IOCL, Bhubaneswar</b> , Synthesis of highly stable double-coated Zn-doped cesium lead bromide nanocrystals for indium ion detection in water
P-22	<b>Somesh Chandra, UGC-DAE CSR Kalpakkam Node</b> , A novel combustion method for synthesis of CuO-MgO 2D-nanostructures
P-23	<b>Sourav Pan, HBNI-IGCAR</b> , Gold nano rods decorated SERS substrate for the ppt level detection of rose bengal stain



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P-24	<b>Thummar Utpalkumar Ghanshyambhai</b> , CSIR-CSMCRI, Non-thermal technology using a lamellar poly(dimethylsiloxane) membrane with controlled pore size for solvent recovery of edible oil process.
P-25	<b>Soosaimanickam Charlin</b> , CSIR-CECRI, Biosensing platform for the Detection of Catecholamines: Epinephrine and Nor-epinephrine
P-26	<b>Arunkumar Sakhivel</b> , CSIR-CECRI, WS2 Quantum dots harvesting via Sonication assisted liquid exfoliation for the electrochemical sensing of xanthine,
P-27	<b>Subhashree Sahoo</b> , NISER, Photocatalytic activity of Au decorated TiO <sub>2</sub> microflower
P-28	<b>Rahul Saha</b> , CSIR-NPL, Environment-friendly process for reclaiming silicon from end-of-life photovoltaic modules: A facile approach to synthesis silica nanoparticles and potential application as corrosion-protecting materials
P-29	<b>Anjali Panwar</b> , Guru Gobind Singh Indraprastha University, Investigating the enhanced Power factor of SnSe nanoflakes in midtemperature range
P-30	<b>Asapu Vinaya Kumar</b> , IIT Madras, Microwave Dielectric studies of modified ZnNb <sub>2</sub> O <sub>6</sub> system
P-31	<b>Ayushmaan Tripathi</b> , ICT-IOCL Bhubaneswar, Advancement in the R&D of all-solid-state electrolytes used in Li-ion batteries
P-32	<b>Subhashree Das</b> , ICT, Effect of thermal annealing on structural, morphological, linear and nonlinear optical properties of quaternary As <sub>20</sub> Ag <sub>10</sub> Te <sub>10</sub> Se <sub>60</sub> thin films
P-33	<b>Priyanka Priyadarshini</b> , ICT, Proton irradiation induced modifications in structural, morphological, and optical properties of Sb <sub>40</sub> Se <sub>20</sub> S <sub>40</sub> thin films
P-34	<b>Manu Mohan</b> , IIT Madras, Tuning of Spin Reorientation to Room Temperature in Cr Doped SmFeO <sub>3</sub>
P-35	<b>Jyoti Ranjan Mandal</b> , CSIR-CSMCRI, Amphoteric Membrane Loaded with Noble Metal Free Hollow Spherical NiCoP@rGO Bi-Functional Electro-Catalyst for Alkaline Water Electrolyser
P-36	<b>Stuti Srivastava</b> , CSIR- NPL, Study of the properties of Nickel oxide thin film grown by RF magnetron sputtering for gas sensing device
P-37	<b>Amit Kumar Gangwar</b> , CSIR-NPL, Highly sensitive and selective CO gas sensor based on nanocrystalline Pd/SnO <sub>2</sub> thin film prepared by magnetron sputtering technique
P-38	<b>Dr. Tapas K. Das</b> , CSIR-IMMT, Ni doped ReS <sub>2</sub> nanosheet as an efficient electrocatalyst for hydrogen evolution reaction
P-39	<b>Jayasri Swain</b> , CSIR-IMMT, Synthesis and characterization of BNT ceramics for energy storage applications
P-40	<b>Roopa</b> , CSIR-NPL, Synthesis and Characterization of Indium Oxide Thin Films for NO <sub>2</sub> Gas Sensing Application
P-41	<b>Rupali Ipsita Mohanty</b> , CSIR-IMMT, Newly designed microporous cobalt phosphonate material for robust electrochemical hydrogen evolution reaction
P-42	<b>Bipul Kumar Pradhan</b> , CSIR-NPL, Laser MBE growth and electron emission properties of vertically self-aligned GaN nanorods on metal substrate
P-43	<b>Tapan Ping</b> , CSIR-IMMT, Effect of Ni-doping and Sulfur defect on ReS <sub>2</sub> nanostructures towards high efficiency oxygen evolution reaction
P-44	<b>Lingaraj Pradhan</b> , CSIR-IMMT, Novel microporous Nickel phosphonate derived heteroatom doped porous nickel oxide and phosphide: Efficient electrocatalysts for oxygen evolution reaction
P-45	<b>Somdatta</b> , IIT Roorkee, Process Temperature Dependent H <sub>2</sub> Gas Sensing Response of Sputter grown Tungsten Oxide Thin Film
P-46	<b>Subhashree Mohapatra</b> , Utkal University, Performance of Ni-Co-Cu Sulphide Systems as Efficient Electrodes for Hybrid Energy Storage Devices





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5<sup>th</sup> August (15:00 – 16:30)

Venue: Pathani Samanta e-Learning Centre (IMMT Library)

P-47	<b>Abhijeet Mohanty, CSIR-IMMT</b> , A SERS-active nano-hybrid substrate for the ppb level detection and photoreduction of Hg <sup>2+</sup> ions in environmental water
P-48	<b>Rahul Godiwal, CSIR-NPL</b> , Effect of balanced and unbalanced magnetron sputtering on the structural, optical and wettability properties of ZnO thin films deposited at room temperature
P-49	<b>Ishita Naskar, IIT Hyderabad</b> , "Zn-doped NiO Films and a Zn <sup>2+</sup> /Ferrocene Based Gel for an Electrochromic Device and an Asymmetric Supercapacitor"
P-50	<b>Rajalaxmi Pradhan, KIIT School of Biotechnology</b> , Nano formulated Resveratrol inhibits metastasis and angiogenesis by reducing inflammatory cytokines in oral cancer cells by targeting tumor associated macrophages
P-51	<b>Brindaban Ojha, NISER</b> , Driving skyrmions with low threshold current density in Pt/CoFeB thin film
P-52	<b>Shaktiranjana Mohanty, NISER</b> , "Magnetization Reversal and Domain Structures in Perpendicular Synthetic Antiferromagnets Prepared on Rigid and Flexible Substrates"
P-53	<b>Pushpendra Gupta, NISER</b> , Frequency dependent inverse spin Hall effect in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /Pt bilayer system
P-54	<b>Diptesh Chakraborty, Utkal University</b> , A Biophysical Interaction Study between Calf-thymus DNA and Ir(F <sub>2</sub> ppy) <sub>2</sub> N hydroxypiconilamide as a Potent Anticancer Complex
P-55	<b>Nikita Pratihar, CSIR-IMMT</b> , In-situ synthesis of Carbonaceous Sand-Sugar Composites (SCC) for the simultaneous removal of BPA and Cr (VI)
P-56	<b>Sarath N V, IIT Madras</b> , Design of Low Bandgap BaTiO <sub>3</sub> Based Ferroelectric Material With Large Polarization For Photovoltaic Applications
P-57	<b>K. Shanmuga Priya, IIT Madras</b> , Impact of external electric field on the physical properties of ferroelectric oxides
P-58	<b>Samarjit Pattanayak, NIT Rourkela</b> , Silver nanoparticles embedded sulfur doped graphitic carbon nitride quantum dots for fluorescence sensing of mercury ions in aqueous media
P-59	<b>Bibek Dash, CSIR-IMMT</b> , Curcumin, Eugenol and Nimbolide as potential ayurvedic anticancer drugs-A combined molecular docking and DFT analysis
P-60	<b>Souman Pahi, NIT Rourkela</b> , Fermi level induced band edge alignment and band bending in Ag <sub>3</sub> PO <sub>4</sub> /Cu <sub>2</sub> O p-n heterojunction for proficient photocatalytic applications
P-61	<b>Pragnyashree Aparajita, NIT Rourkela</b> , "Binary 2D/2D g-C <sub>3</sub> N <sub>4</sub> /CuCoOS photocatalyst towards the effective degradation of antibiotic Norfloxacin degradation under visible light"
P-62	<b>Anil Govekar, ICT-IOCL, Bhubaneswar</b> , "Green synthesis of novel air-stable p-type dopants under ball-milling via radical chemistry and their electrochemical studies."
P-63	<b>Priyanka Angarkhe, ICT-IOCL, Bhubaneswar</b> , Organic Hydrides: Synthesis and their Application as an n-type dopant.
P-64	<b>Baker M.T, University of Ilorin, &amp; CSIR-IMMT</b> , Characterization of Synthesized Cellulose Derivatives in 1-Butyl-3-Methylimidazolium Chloride Ionic Liquid
P-65	<b>G Hazare, CSIR-IMMT</b> , Biomass residue and its synthesized derivatives as collector for the flotation of calcite-quartz system
P-66	<b>Abinash Pradhan, NIT Rourkela</b> , Bi/Sb-Based Lead-Free Halide Perovskites for Possible Photovoltaic Application
P-67	<b>Banalata Majhi, NIT Rourkela</b> , Shape Selective Comprehensive Gas Sensing Study of Modified rGO with Different Morphological Manganese-Cobalt Oxides as Potential Room Temperature Hydrogen Gas Sensor
P-68	<b>Shitaljyotsna Sahoo, NIT Rourkela</b> , A Redox Accessible Cu-BTC Metal Organic Framework-based Nanocomposite for Selective and Sensitive Electrochemical Sensing of Triclosan in Real Sample



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P-69	<b>Aisha Khatun, IOP Bhubaneswar</b> , Variation of structural and magnetic properties of mixed-valent manganites through A-site cationic ordering
P-70	<b>Dr. Paramita Maiti, IOP Bhubaneswar</b> , Layered Copper Selenide as an ultrasensitive and selective non-enzymatic Glucose Sensor
P-71	<b>Dr. Ashis K.Manna, IIT Bhubaneswar</b> , Non-enzymatic glucose sensing with $Cu_xO-ZnO$ composite nanostructured prepared by single-step co-electrodeposition technique
P-72	<b>Sudip Chand, NIT Rourkela</b> , Sunlight-mediated photocatalytic activity of $ZrO_2/g-C_3N_4$ nanocomposite for removal of Rhodamine B
P-73	<b>Ashutosh Mohapatra, ICT</b> , Suppression of halide migration and improved stability in double-coated cesium lead halide perovskite nanocrystals for application in down-conversion white-light-emitting diodes
P-74	<b>P. Elorika, CSIR-IMMT</b> , Disorder-induced structural, ferroelectric, piezoelectric, and optical properties variation in Hf substituted BT
P-75	<b>Balaram Barik, NIT Rourkela</b> , Selective visual detection of histamine and ascorbic acid through the rapid gel-sol transition of luminescent alginate hydrogel
P-76	<b>Shubhalaxmi Choudhury, NIT Rourkela</b> , $\alpha-Fe_2O_3$ nanoparticles decorated $NrGO/g-C_3N_4$ heterostructure photocatalyst towards environmental applications
P-77	<b>Suman Saptaparna Das, NIT Rourkela</b> , Synthesis, Structural and Optical Properties of Lead-Free OD Halide Perovskites
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