

List of Accepted Abstracts for CMDAYS-2024

SI No.	Name	Institute	Abstract Title	Presentation Mode
1.	Abegail	NIT Nagaland	Structural and Magnetic Study of Co_{2-x}Fe_{1+x}Al Heusler Alloy for Soft Magnetic Applications	POSTER
2.	Abel G Achumi	NIT, Nagaland	Post synthetic modification of stable UiO-66-NH₂ metal organic framework as an effective fluorescent probe for the sensing of Fe³⁺ in aqueous medium	ORAL
3.	Akash Buragohain	Dibrugarh University	Low-Cost Planar Microwave Sensor for Permittivity Analysis and Adulteration Detection	ORAL
4.	Amarjit Das	IIT Guwahati	Structural, Optical and Magnetic Properties of Holmium-Cobaltites	POSTER
5.	Amar Jyoti Kalita	Dibrugarh University	Magnetically Recoverable Zinc Ferrite Nanoparticles as Highly Efficient Heterogeneous Catalysts for <i>Ips</i>-Hydroxylation Reaction	POSTER
6.	Angshuman T. Borgogoi	Dhakuakhana College (Autonomous)	Acetone Gas Sensing using Molybdenum Disulfide Films Fabricated by Vapor Plasma Mixing Technique	ORAL
7.	Annesha Chetia	Dibrugarh University	NO Adsorption Behaviour on Defective MgO monolayers	POSTER
8.	Anuj Kumar Maurya	Tezpur University	Exploring the Tracking of Microparticle Diffusion in Electrolytic Media: Brownian and Anomalous Diffusion	POSTER
9.	Arati Chetry	Dibrugarh University	Highly Selective Solution and Film based Sensor for Colorimetric Sensing of Arginine in Aqueous and Blood Samples	POSTER
10.	Arijit Datta	IIT Guwahati	Altered Magnetic Order Parameters and Optical Energy Bandgap in Mn Substituted Nickel Chromate Spinel	POSTER

11.	Arindam Boruah	Dibrugarh University	Formation of Anomalous Andreev Bound States in Ising Superconductor Half-metal Ising Superconductor	ORAL
12.	Arnab Kanti Karan	Jadavpur University, Kolkata	Highly Efficient Photo-Electric Behaviour of Carnosine dye based Synthetic DSSC incorporated with Zinc-Oxide Nanoparticles	POSTER
13.	Arnab Banerjee	Scottish Church College, Kolkata	Electrochemical Performance and Enhanced Magnetoresistance of Self Doped $La_{0.6}MnO_{3+\delta}$ Perovskite for Energy Storage and Magnetic Field Sensor Applications	POSTER
14.	Athul Satya	NIT Meghalaya	Unravelling the Dynamics of Liquid Crystal-Protein Interactions: A Multi-Technique Investigation for Biosensing	ORAL
15.	Bidish Borah	Gauhati University	Theoretical Analysis of Temporal Domain, Spatial Grids and Time Steps of Soliton Wave with Reference to Energy Loss	ORAL
16.	Bikash Baro	Rajiv Gandhi University	CsPbBr₃/PVDF-HFP and ZnO nanorods based Tribo-Piezoelectric hybrid nanogenerators for self-powered photodetection application	ORAL
17.	Bikash K Das	Tezpur University	Surface Wettability Features in <i>Bougainvillea</i> Flower Petals	ORAL
18.	Biswajit Das	IIT Guwahati	Design and Simulation of n-WS₂/c-Si(p) Heterojunction Solar Cells using TCAD Sentaurus	POSTER
19.	Bitupon Boruah	Assam Kaziranga University	Synthesis and Characterization of Sodium and Potassium based Salts for the Single-ion Conducting Polymer Electrolytes	POSTER
20.	Chayanika Chetia	Dibrugarh University	Synthesis and Study of Zinc Vanadate nanostructures as photocatalyst for degradation of Methylene Blue Dye	POSTER

21.	Debalina Hazra	Jadavpur University, Kolkata	Optimizing Power-Efficiency Dynamics in Ambient Energy Harvesting: Exploring Trade-Offs, Linearity and Synergy	ORAL
22.	Deepak Das	NIT Nagaland	Biochar from <i>Musa cheesmanii</i> Waste: A Comprehensive Approach for the Removal of Fe(II) from Aqueous Environments	ORAL
23.	Dhiraj Sarma	NIT Meghalaya	Effect of co-substitution of Al and Cr on Structural and Dielectric Properties of Cobalt Magnesium Ferrite	POSTER
24.	Dhruv Agrawal	NIT Meghalaya	Exploring Stochastic Resonance in Coupled Bistable Systems	POSTER
25.	Dimishree Neog	AU, Diphu Campus	Self-action Effect in Negative Index Material	POSTER
26.	Dr. Dipak Mazumdar	Arya Vidyapeeth College, Guwahati	Magnetic Exchange Coupled Composite Behavior in the Doped Manganite Nanoparticles: A Proposed Phenomenological Model	ORAL
27.	Dipankar Kalita	Tezpur University	Exploring Lightweight High Entropy Alloys for Radiation Resistant Applications	POSTER
28.	Dr. G. Krishnamoorthy	IIT Guwahati	Photosensitizer Conjugated Chitosan as an Efficient Photodynamic Tissue Engineering Scaffold	ORAL
29.	B Elizabeth Hemso	NIT Nagaland	Design, Synthesis and Evaluation of Potential Antibacterial and Antioxidant Properties of Ester Terminated p-substituted Aniline based Dendritic Core	ORAL
30.	Gaurisankar Phukan	Tezpur University	Computational Study of the Hydrolysis Reactions of the Ground and First Excited Triplet States of Bare and Transition Metal Doped Ti₂O₄ Cluster	POSTER
31.	Geetimallika Das	Dibrugarh University	Strain Induced Thermoelectric Behaviour of XCaB (X = Li, Na, K) Half-Heusler alloys	ORAL

32.	Dr. Hemen Ch Medhi	St. Edmund's College, Shillong	Study of Electrical properties of Bakelite Resistive Plate Chamber Detector Materials	ORAL
33.	Imranul Haque	Sonari Junior College, Charaideo	“Hey Sam!”, an AI-Powered Tool for Preliminary Graphical Analysis in Material research	ORAL
34.	Indranee Changmai	Gauhati University	Piezo-/pyro-/photocatalysis with Ag/AZO nanocomposite	ORAL
35.	Iswar Prasanna Borgohain	Gauhati University	Hydrothermally Synthesized Mix Phased 1T/2H@MoS₂/PEDOT:PSS nanocomposites for Enhanced Conductivity	POSTER
36.	Dr. Jagadish Chandra Mahato	Visva-Bharati, Santiniketan, West Bengal	Two Dimensional V₂S₂ as an Efficient Anode Material for Alkali Metal Ion batteries	POSTER
37.	Dr. Jayanta Hazarika	Pandu College, Guwahati	Surfactant-assisted synthesis of Polypyrrole Nanoparticles in DBSA micellar solution: Studies of structural, optical, thermal, ac conductivity and dielectric relaxation properties	ORAL
38.	Jiban Ghosh	University of North Bengal, West Bengal	Insight into Electric Transport and Dielectric Relaxation of Fe Doped Glassy Semiconductor	POSTER
39.	Jonmani Rabha	Gauhati University	A Comparative Analysis in the Pyro-phototronic Behaviour of Al/nanostructured PSML: p⁺⁺-Si and Al/nanostructured PSML: p⁺-Si Schottky Photovoltaic Devices	POSTER
40.	Dr. Jyotimoni Bora	DUIET, Dibrugarh University	Influence of Copper Addition on the Properties of CdS/PVA Thin Films: Structural, Morphological, and Optical Analysis	POSTER
41.	Jyotismita Bora	Dibrugarh University	Effect of <i>Dillenia indica</i> Plant Extract on Structural and Magnetic Behaviour of Cobalt Ferrite Nanoparticles and its Catalytic Activity for the Facile Access of Nitroarenes and Phenols	POSTER

42.	Kakoli Doloi	Tezpur University	Noticeable Improvement in the Electrical Conductivity of Zr-based UiO-66 Metal Organic Framework (MOF) with Incorporation of Ag₂O Nanoparticles	ORAL
43.	Kallol Kavas Hazarika	Dibrugarh University	Magnetization Dynamics of Two Dimensional Magnetic Materials at Finite Temperature	POSTER
44.	Kamalesh Roy	Jadavpur University, Kolkata	Plastics in Transition : A Journey from Macro to Nano-scale	POSTER
45.	Kangkana Hazarika	Gauhati University	Facile synthesis of CeO₂ nanocrystals and Investigation of their Microstructural and Optical Properties	POSTER
46.	Karabi Kanchan Borgohain	NIT Silchar	Incorporation of MXene into All-inorganic Halide Double Perovskite and its Influence on Resistive Switching Behaviour	POSTER
47.	Karishma Sonowal	Dibrugarh University	A Comparative Study on Structural and Optical Properties of Multilayer Cu_xO/ZnO and ZnO/Cu_xO Heterojunction Thin Films	POSTER
48.	Lawrence Rai	NEHU, Shillong	Investigation of Phonon Spectral Function of Holstein Polaron within Ward Identity Preserving Approach	ORAL
49.	Lokaranjan Borphukan	Dibrugarh University	Aluminium Thin Film Mirror Fabricated by Thermal Evaporation Technique	POSTER
50.	Madhusmita Baruah	Dibrugarh University	Preparation and Optimization of Phosphate Loaded CMC/ZnO/Ni Cross-linked Nanocomposite Hydrogel Beads for Agricultural Application	ORAL
51.	Mahabubur Rahaman	West Bengal State University	Enhanced Hybridization induced Robust Ferromagnetism in Quaternary Heusler Alloy CoIrTiAl	ORAL

52.	Mandira Das	Jadavpur University, Kolkata	Combinational Therapy against MDA-MB-231 Cell Line Using A HSP90-Inhibitor and Doxorubicin Encapsulated Nanocubes	POSTER
53.	Manisha Jhahria	IISER Bhopal	Activity induced Non-monotonic Aggregation in a Mixture of Chemically Active and Passive Particles	ORAL
54.	Mayuri Dutta	Dibrugarh University	Ag Nanoparticles Decorated NiFe₂O₄ Binary Magnetic Nanocomposite for the Hydration of Aromatic Nitriles to Primary Benzamides	POSTER
55.	Mondeep Gohain	Dibrugarh University	Studies on the Effect of ZnS:Mn Nanoparticles on the Judd-Ofelt and Radiative Properties of Sm³⁺ Ions in a Sol-Gel Silica Matrix	POSTER
56.	Monisa Das Modak	C.V.Raman Global University, Bhubaneswar	Recent Developments in Two Terminal Memristor-based Glucometer	ORAL
57.	Montu Gogoi	Dibrugarh University	Fabrication of lead-free Cu²⁺ Doped Cs₂AgBiCl₆ Double Perovskite for Sustainable Photocatalysis	POSTER
58.	Mouli Roy-Chowdhury	IIT Guwhati	Cluster Spin-glass Dynamics in Frustrated Trication Spinels	POSTER
59.	Mridusmita Boruah	Dibrugarh University	Investigation on the Correlation of Optical Parameters of Nanocrystalline ZnS_xSe_{1-x} thin films with Deposition Temperature	POSTER
60.	Najmin Sultana	Gauhati University	Hydrothermal Synthesis and Characterization of Highly Pure MoS₂ Nanosheets in an Alkaline Environment (pH 10)	POSTER
61.	Dr. Nibedita Dehingia	Tingkhong College	Photoluminescence Behaviour of Sm³⁺ Ions in the Presence of Au Nanoparticles in Silica Matrix	ORAL
62.	Dr. K. Nomita Devi	Manipur University	Visible Light Active Efficient and Reusable CdS/ZnS/PVDF Nanocomposite Films for Malachite Green Dye Degradation	ORAL

63.	Pallab Pathak	Gauhati University	Affordable Nanocomposite Painted Paper as Ultrasensitive SERS Substrate	ORAL
64.	Pallabi Saha	NIT Meghalaya	Modulation of the Structure and Dielectric Properties of ErCrO₃ by Introducing Fe³⁺	POSTER
65.	Pangao	NIT Nagaland	Investigating the Impact of Cr Substitute in BaNi₂Fe₁₆O₂₇ W-type Hexaferrites on its Structure, Electrical and Magnetic Properties for Microwave Absorber	POSTER
66.	Partha Pratim Borah	Gauhati University	Computational Study of Nonlinear Optical Loss due to Stimulated Brillouin Gain in Long Optical Fiber	ORAL
67.	Poly Neog	Dibrugarh University	Modelling of Homo- and Hetero-structures based on MgS and MgSe Monolayers	POSTER
68.	Poulami Biswas	West Bengal State University, Kolkata	Electronic Structure And Thermoelectric Properties Of Ferromagnetic Heusler Alloy CoVZrAl	ORAL
69.	Prakash Nandi	Tezpur University	Solvent Treated Dielectric Properties and Characterisation of TiO₂ nanoparticles	POSTER
70.	Dr. Pranab Jyoti Bhuyan	Cotton University	Effect of Self-propulsion and Persistent time on Dense Glassy Systems	ORAL
71.	Pranamika Borah	Dibrugarh University	Influence of Ammonia on Chemical Bath Deposition as a Sustainable Method to Obtain Cd_{1-x}Zn_xS Thin Films	ORAL
72.	Priyanka Kumari	IIT Bhubaneswar	Chemical Vapour Deposition of CdS Nanolayers and its Characterization	POSTER
73.	Priyanka Tiwari	IIT Guwahati	Magnetostructural Transitions induced by the Intermediate Spin State of Co in Lanthanum Cobaltite	ORAL
74.	Priyanku Gogoi	Gauhati University	Silver Decorated 1T/2H Mixed Phase MoS₂ Nanosheets as an Advanced Supercapacitor Material	POSTER

75.	Protiksha Dutta	Dibrugarh University	Studies on Annealing Effect on Structural Properties of Pristine and Copper-Doped Iron Oxide Nanoparticles	POSTER
76.	Rakesh Ram	University of North Bengal	Development of a New Generation Glassy Electrolyte to Study their Mixed Alkali Effect with Enhanced Characteristic Properties	ORAL
77.	Riddhiman Sahoo	Jadavpur University	Antisite Defect Tuned NaEu(WO₄)₂ Material: an Efficient Red Phosphor for Optoelectronic Applications	POSTER
78.	Rimjim Shibam	Tezpur University	Exploring of Reduced Graphene Oxide (rGO) Composite Materials for Advancement in Biomedical Applications: A Comprehensive Review	POSTER
79.	Rimpee Kumari Sah	NIT Meghalaya	Thermodynamical, Structural, Electrical, Non-linear Optical and Vibrational Studies of TB10A using DFT	ORAL
80.	Rituparna Hazarika	Dibrugarh University	Impact of Oxygen Vacancy Defects on MgO Multi-layer Systems	ORAL
81.	Rituraj Mahanta	Debraj Roy College (Autonomous)	Enhanced Sunlight-Assisted Wastewater Treatment via SnO₂-Coated Jute Fibers	ORAL
82.	Roshmi Pangyok	Dibrugarh University	Sustainable pH indicator Using Natural Flavonols from Onion (Allium cepa) Husk	POSTER
83.	Sakera Khatun	Cotton University	Synthesis of CdSe nanoparticles in aqueous medium	POSTER
84.	Sanghamitra Sarmah	Dibrugarh University	Eco-Friendly Ag-Nanoparticles as Corrosion Inhibitors for Mild Steel	POSTER
85.	Sutanu Das	University of Kolkata	One step Hydrothermally Synthesized Ruthenium Doped Molybdenum Disulfide: towards High-performance Symmetric Supercapacitor Device Application	POSTER
86.	Santosh Kumar Barik	Utkal University, Bhubaneswar	Effect of Doping on Superconductivity & Chemical Potential on Hole-doped Iron Pnictide	ORAL

			Superconductors	
87.	Dr. Satchidananda Rath	IIT Bhubaneswar	White Light Emitting Spin Active Excitonic States in Mn doped CdSe Layered Nanosheets	ORAL
88.	Saujanya Adhyapak	Dibrugarh University	Impact of pH on the Structural Properties of Chemically Deposited Zn_xMg_{1-x}S Thin Films for Photovoltaics	POSTER
89.	Dr. Saumen Acharjee	Dibrugarh University	Non-Equilibrium Thermodynamics and Superconducting Qubit Dynamics in Kagome Latticé System	ORAL
90.	Dr. Sayan Bayan	Rajiv Gandhi University	Nanostructure based Triboelectric Nanogenerators for Self-powered Sensors	ORAL
91.	Shrutipriya Devi	Dibrugarh University	<i>Kalanchoe pinnata</i> Leaf Extract-assisted Green Synthesis of Fe₃O₄-rGO Doped PTh Nanocomposite for Highly Sensitive Room Temperature Chloroform Gas Sensor	POSTER
92.	Siddhartha Protim Bharadwaj	Dibrugarh University	A Study on the Optical properties of Plant-based Pigment Chlorophyll and its Potential Application in the Detection of Pyrene	ORAL
93.	Simanta Das	Gauhati University	Studies on Microstructural Properties of Chemically Synthesized MgO Nanocrystals	POSTER
94.	Snigdha Patra	NIT Silchar	Boosting the Piezoresponse in Ferroelectric Polymer via Perovskite Nanoparticle Incorporation	POSTER
95.	Soni Ngadong	Indira Gandhi Govt. College, Arunachal Pradesh	Vehicular Speed Sensor based on Au@PVDF-HP/ZnO Piezoelectric Nanogenerator	ORAL
96.	Dr. Suvra Prakash Mondal	NIT Agartala	Noninvasive Nitric Oxide Sensing in Body Fluids for Biomedical Application	ORAL
97.	Sudip Kundu	Jadavpur University	JQ1 and Doxorubicin loaded Prussian Blue based Nanoplatfrom for Immunotherapeutic Treatment against Triple Negative Breast Cancer	POSTER

98.	Sumon Boro	Dibrugarh University	Effect of Growth Temperature on the Structural and Optical Properties of Lead (Pb) Free Cesium Copper Bromide based Perovskite Thin Films	ORAL
99.	Swadhin Kumar Jena	IIT Bhubaneswar	Investigation of Al₂O₃/SiO₂ Interface Charge for the Feasibility of Charge Sheet Super Junction	POSTER
100.	Swarnadeep Biswas (Asst. Prof.)	Assam University, Silchar	DFT study of Chlorophyll as a OH• radical scavenger	ORAL
101.	Tikendrajit Chetia	Dibrugarh University	Eco-Friendly Synthesis of NiFe₂O₄ Nanomaterials: A Green Approach to Advanced Catalysis for Enhanced Oxidation of Benzyl Alcohol	POSTER
102.	Uddit Narayan Hazarika	Dibrugarh University	Small <i>in situ</i> Generated Ligand based Highly Conductive Metal Organic Frameworks	POSTER
103.	Urbashi Bora	NIT Silchar	Surface Modification of BaTiO₃-based Perovskite Nanocrystals for High Energy Storage Applications	POSTER
104.	Uttaron Goswami	Dibrugarh University	Investigation of Silica Nanoparticle Stability in Nanofluids and Its Impact on Oil Recovery in a Part of the Upper Assam Basin	ORAL
105.	Yatish Beria	Dibrugarh University	Permittivity Detection of Materials using Microwave Sensor	ORAL