

Soft Matter & Quantum Dynamics (SMQD)

Contributory Talk – List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Sanat Karmakar	Jadavpur University	Interaction of cationic membranes with monovalent sodium salts: Effect of zwitterionic phospholipid
2	Komal Saxena	Dayalbagh Educational Institute, Agra	Extracting the Hidden Topology in the Time Crystal Architecture of Microtubule Resonance using Higher Order External Pumping Frequency
3	Ankur Mandal	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI	High harmonic generation from confined atoms: carrier envelope phase and chirp dependence

Poster - List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Anindita Chakraborty	Assam University	Monodisperse Fe_3O_4 nanoparticles encapsulated Zinc imidazole frameworks (ZIF-8) for adsorptive removal of Cr (VI)
2	Debashis Kundu	Indian Institute of Technology Guwahati	Development of carboxymethyl cellulose-xylan based hydrogels
3	Mitradip Das	National Institute of Science Education and Research (NISER)	Computational Investigation of Structure and Dynamics of Choline-Chloride based Deep Eutectic Solvents
4	Nitai Patra	Jadavpur University	Influence of Solvent, NaCl, β -CD on the Krafft Temperature and solvents on aggregation of Sodium Tetradecyl Sulfate
5	Sasthi Charan Mandal	S.N. Bose National centre for Basic Sciences	Recognition and cleavage of DNA by EcoRV restriction endonuclease with the help of Magnesium ions
6	Sourav Das	Jadavpur University	Interaction of a SAIL with a conventional surfactant
7	Edwine Tendong	S.N. Bose National Centre for Basic Sciences	Molecular dynamics study of water structure in asymmetric hydrophobic/hydrophilic nano confinement.
8	Piya Patra	MAKAUT,WB	Anion recognition and specificity of Ca ²⁺ motif in functional proteins
9	Arunava Adak	S.N. Bose National centre for Basic Sciences	Quantum chemical studies on coordination of metal ion to milk-protein, alpha lactalbumin (aLA)
10	Saikat Pal	S.N. Bose National centre for Basic Sciences	Studying the Effect of Amino Acids on the Thermal Stability of Proteins
11	Tanwi Debnath	UNIVERSITY OF CALCUTTA	Escape kinetics of a Janus particle carrying cargo

12	Subhamoy Singha Roy	IACS, Kolkata	Yielding Quantum Dynamics of DNA
13	Sutapa Dutta	S.N. Bose National centre for Basic Sciences	Model studies on protein aggregation with competing hydrophobic and electrostatic interactions
14	Jayanta Mondal	IIT Kharagpur	Green synthesis of multicolor carbon dot hydrogel and its application in graphitic materials sensing
15	Debajyoti Debnath	Presidency University	Self-propulsion and transport properties of micro-swimmers
16	Pushendra Singh	Amity University Rajasthan	Measurement & theoretical simulation of water inside and outside of a single microtubule nanowire
17	Arpita Srivastava	IIT Jodhpur	All atom and Coarse grained molecular dynamics simulations of Asymmetric mixed surfactant bilayers
18	Priya Singh	S.N. Bose National centre for Basic Sciences	Modulation of Solvation and Molecular Recognition of a Lipid Bilayer under Dynamical Phase Transition
19	Abhinav Srivastava	IIT Jodhpur	Dynamical heterogeneities of Chemically Confined Hydrated Water near Lipid Membranes at room temperature

Spectroscopy & Biomedical Applications (SBA)

Contributory Talk - List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Manas Panda	CSIR National Institute for Interdisciplinary Science and Technology, Trivandrum	Smart Fluorescent Materials for Inkless Writing and Self-erasing Application
2	Joydeep Chowdhury	Jadavpur University	SERS on Neplas substrates fabricated from Langmuir- Reverse Shaefer Technique
3	Jaivardhan Sinha	Department of Physics and Nanotechnology, SRM Institute of Science and Technology	Tunable Damping in Ferromagnetic Thin Film Heterostructures by Interface Engineering

Poster - List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Sourav Ghosh	Indian Institute of Engineering Science and Technology, Shibpur	Optical characteristics of Tb ³⁺ - Eu ³⁺ codoped sodium zinc lead phosphate glass
2	Ratnadwip Singha	Saha Institute of Nuclear Physics	Probing lattice dynamics and electron-phonon coupling in topological nodal-line semimetal ZrSiS
3	R. Biswas	Tezpur University	Quantitative estimation of lead ions in aqueous solution through tuned LSPR
4	RUPAM DUTTA	IIT Kharagpur	Effect of Micro-heterogeneity of Different Aqueous Binary Mixtures on the Proton-Transfer Dynamics of [2,2'-Bipyridyl]-3,3'-diol: A Femtosecond Fluorescence Upconversion Study
5	SOMSUBHRA SAHA	Jadavpur University	Controlled aggregation of gold nano particles in the Langmuir-Blodgett film matrix of PMMA: An efficient SERS

			sensing platform with unique molecular selectivity
6	Chaitrali Sengupta	S.N. Bose National Centre for Basic Sciences	Photoinduced electronic interactions between acridine derivatives and leaf extract coated silver nanoparticles: A spectroscopic insight
7	Sanchi Maithani	S.N. Bose National Center for Basic Sciences	High-resolution spectral analysis of 1,3 butadiene using cavity ring-down spectroscopy
8	Debasish Das Mahanta	S. N. Bose National Centre for Basic Sciences	Contrasting Hydration Dynamics in DME and DMSO Aqueous Solutions: A Combined Optical Pump-probe and GHz-THz Dielectric Relaxation Investigation
9	SK IMADUL ISLAM	S.N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES, SALT LAKE, GD BLOCK	Study Of Two-Photon Induced Absorption Of Rhodamine Dyes Bound With Bovine Serum Albumin During Thermal Denaturation Process
10	Partha Pyne	SNBNCBS, BLOCK-JD, SECTOR-III, SALT LAKE,KOLKATA-700106	Molecular Crowders Affect Ligand-DNA Intercalation
11	Arnab Samanta	S N Bose National Centre for Basic Sciences	Mesoporous MnO ₂ Nanocomposites Exploring as an Adsorbent and Catalyst for Waste Water Treatment
12	SAYANTAN ADAK	S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES	Development and Applications of Optical Rectification based Coherent Terahertz Spectroscopy System

13	ARINDAM DAS	IISER Mohali, Sector-81, P.O. Manauli, SAS Nagar, Punjab 140 306, India.	Study of Environment Effect on Energy Transfer between Photosynthetic Pigment Molecules in Solution by Spectroscopic Technique
14	Pankaj Seliya	Indian Institute of Science Education and Research, Mohali	Solvation Dynamics probed by Two Dimensional Electronic Spectroscopy
15	Sreyan Raha	Bose Institute	Study of electron-phonon interaction in Tin (Sn) doped Germanium(Ge) nanowire
16	Tara Shankar Bhattacharya	Bose Institute	Enhanced Light Emission in Hexagonal Bi ₂ Se ₃ Thin Film Coupled with Plasmonic Nanoparticles
17	ANJOY MAJHI	Presidency University	Interaction of 4- Azido coumarin, a fluorescent probe with Biomacromolecular systems
18	Tuhina Mondal	Indian Association for the Cultivation of Science	White light emission from a rare earth-free intrinsic metal organic framework
19	Rup Kumar Chowdhury	IIT Kharagpur	Probing exciton and biexciton dynamics in layered WS ₂ using femtosecond transient absorption spectroscopy
20	Madhuri Mandal Goswami	S. N. Bose National Centre for Basic Sciences	Functionalized Magnetic Nanoparticles in Theranostic Purpose
21	Triparna Datta	Institute of Engineering and Management	Modelling of the response of Bulk Acoustic Wave based devices in bio sensor applications
22	Sayoni Bhattacharya	Technical Research Centre, S. N. Bose National Centre for Basic Sciences	Development of a breath analyzer for non-invasive detection of stomach infection

23	SUBRATA MONDAL	INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI	Evolution of Amyloid Tetramer: Towards Early Stage Therapeutics for Alzheimer's Disease
24	SOUVANIK TALUKDAR	S. N. Bose National Centre for Basic Sciences	Developing Multifunctional Magnetic ZnFe ₂ O ₄ nanohollowspheres for Drug Delivery by Facile Surface Modification
25	Damayanti Bagchi	S. N. Bose National Centre for Basic Sciences	Light activated Nanobiotic for destruction of bacterial infections
26	Sangeetha C	Government Arts and Science College	A novel composite matrix for controlled drug release
27	Tanushree Dutta	S. N. Bose National Centre for Basic Sciences	Bimetallic zeolitic imidazolate framework as an active excipient of a therapeutic drug molecule

Magnetism, Spintronics and Superconductivity (MSS)

Contributory Talk - List

<u>Serial No</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Abhijit Ghosh	IMRE (ASTAR)	Spin wave dynamics of 2D magnonic crystals and spin ice structures
2	Indranil Sarkar	Institute of Nano Science and Technology Mohali	Growth and magnetic properties of electrochemically grown CoFeSn/MgO heterostructures

Poster-List

<u>Serial No</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Sucheta Mondal	S. N. Bose National Centre for Basic Sciences	Time-Domain Detection of Thickness Dependent Spin-Hall Angle in β -Ta/CoFeB/SiO ₂ Heterostructure
2	Sudip Kumar Ghosh	School of Physical Sciences, University of Kent	Time-reversal symmetry breaking in superconductors through loop Josephson-current order
3	Amit	Department of Physical Sciences, Indian Institute of Science Education and Research (IISER) Mohali	Evidence of conventional superconductivity in the type-II Dirac semimetal PdTe ₂
4	Roshna S H	Indian Institute Of Technology Madras	Phonon mode analysis and related crystal properties in La _{0.7} Sr _{0.3} MnO ₃ /SrRuO ₃ superlattices

5	Satadeep Bhattacharjee	Indo Korea Science and Technology Center	Structural and magnetic properties of pure and doped Fe ₂ P
6	P. IyyappaRajan	VIT, Chennai	Structure, Electronic Structure and Physical Property of YbFe ₂ As ₂
7	B Krishna	Indian Institute of Technology Hyderabad	Reprogrammable Microwave Properties in Single and Multilayer Nanomagnets
8	Kriti Gupta	IISER Pune	Metamagnetism in Nanosheets of Co(II) MOF Exhibiting Giant Hysteretic Effect at Low Temperatures
9	Prachi Telang	Indian Institute of Science Education and Research, Pune	Electronically driven lattice instability in the candidate Weyl semimetal Eu ₂ Ir ₂ O ₇
10	Subrata Ghosh	S N Bose National Centre for Basic Sciences	Effect of Si Doping on Magnetic and Magnetocaloric Properties of Ni _{1-x} Co _x Mn _{1-x} Sn _x Alloys
11	Sudipta Bandyopadhyay	University of Calcutta	Structural, Optical, Magnetic and Electronic Properties of Ion Irradiated Co Doped ZnO Film
12	Priyanka Saha	S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES	Effect of particle size and morphology on the rheological response of Fe ₃ O ₄ nano structures based magnetic fluid
13	Nilay Maji	Indian Institute of Technology Kharagpur	A Comparative Study on Spin Valve like Magnetic Tunnel Diode Behavior of Co ₂ MnSi/SiO ₂ /p-Si and Co ₂ MnSi/SiO ₂ /n-Si Heterostructures
14	Susanta Kumar Mohanta	Government College of Engineering, Kalahandi, Bhawanipatna, Odisha	On the giant magnetic moment of Fe in Pd _{1-x} U _x alloys
15	Mithun Kumar Majee	Indian Institute of Technology Indore, Simrol, Indore	Magnetic properties of LiNi _{0.75} M _{0.25} O ₂ (M = Al and Fe)

16	Anupam Banerjee	Indian association for the cultivation of science	Magnetic behaviour in the non-centrosymmetric spin system R ₂ Cu ₂ O ₅
17	Mithun K Ghosh	INDIRA GANDHI NATIONAL TRIBAL UNIVERSITY	Dye adsorption, separation and DNA binding activity of Cobalt and Nickel complexes of syn -2 - Pyridinealdoxime
18	Tanmay Chabri	Indian Institute of Technology Kharagpur	Field induced martensite transition and magnetocaloric effect in Ni ₄₅ Mn ₄₄ Sn ₇ In ₄ Heusler alloy
19	Tania Chatterjee	CSIR-CGCRI	Investigation of magnetic property in Graphene Oxide and Bismuth Ferrite Nanocomposite
20	Maheeb Alam	SNBNCBS	Room Temperature Ferromagnetism and Ferroelectricity in double perovskite Y ₂ NiMnO ₆ Nanostructured Thin Films
21	Lakshman Dhal	Indian Institute of Technology Madras	Magnetocaloric Effect in Electron-Doped Manganites R _{0.15} Ca _{0.85} MnO ₃ (R = Y, Gd and Dy)
22	Suman Kalyan Pradhan	Indian Association for the Cultivation of Science	Exchange bias effect in rare earth chromites
23	Anulekha De	S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES	Influence of Lattice symmetry on Spin-Wave Mode Conversion in Two Dimensional Antidot Magnonic Crystal
24	Sourav Sahoo	S.N. Bose National Centre for Basic Sciences	Ultrafast Magnetization Dynamics in a Three-Dimensional Nanoscale Structure
25	Krishanu Ghosh	Dept. of Physics, P. C. Vigyan Mahavidyalaya, Bihar	Griffiths-like phase in frustrated GdFe _{0.17} Sn ₂ compound
26	Avinash Kumar Chaurasiya	S. N. Bose National Centre for Basic Sciences	Direct Observation of Unusual Interfacial Dzyaloshinskii-Moriya Interaction in Graphene/NiFe/Ta Heterostructure

27	Shoumi Roy	Department of Physics, Jadavpur University	Impact of repetitive Gaussian pinning force density on some specific distribution of superconducting grains
28	Surya Narayan Panda	S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES	All optical detection of spin pumping induced interfacial spin transparency in CoFeB/ β -Ta thin films
29	Sudip Majumder	S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES	Efficient Tunability of Spin Wave Dynamics in Two-Dimensional Diamond Shaped Ferromagnetic Nanodots Array
30	Arindam Samanta	INDIAN INSTITUTE OF TECHNOLOGY MADRAS	Structural and Electrical properties study of Nanostructure Perovskite Oxides $Ba_{(1-x)}Nd_xTi_{(1-y)}Cr_yO_3$ ($x=0.05, 0.10$ & $y=0.05, 0.10$) prepared via Solid State method
31	Ankita Sarkar	Indian Association for the Cultivation of Science	Tuning of Magnetic Ground State of $CoAl_2O_4$ Spinel Oxide
32	Sanjib Banik	Saha Institute of Nuclear Physics	Effect of A-site ionic radius on metamagnetic transition in charge ordered $Sm_{0.5}(Ca_{0.5-x}Sr_x)MnO_3$ compounds
33	Kartik Adhikari	S. N. Bose National Centre for Basic Sciences	Tunable Spin Configuration and Spin Dynamics in Arrays of $Ni_{80}Fe_{20}$ Nano-Cross Structures
34	Sourav Chakraborty	Saha Institute of Nuclear Physics	Ferromagnetic windows in diluted classical Kondo lattice model
35	Alorika Chatterjee	Indian Association for the cultivation of Science, Jadavpur	Investigation of Multiferroic Behavior in $Co_{0.8}Cu_{0.2}Cr_2O_4$

36	Santanu Pan	S. N. Bose National Centre for Basic Sciences	Anisotropic Spin Pumping in Heavy Metal/Ferromagnet/Heavy Metal Trilayer Structure Observed from Ultrafast Laser Induced Magnetization Dynamics
37	Anup Debnath	INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE	Ferromagnetic ordering in a stable α -Co(OH) ₂ phase grown on a MoS ₂ surface
38	Arundhati Adhikari	S. N. Bose National Centre for Basic Sciences	Investigation and Application of Anisotropic Properties in Pseudo One Dimensional Magnonic Crystal
39	Susmita Saha	ETH Zurich and Paul Scherrer Institute	Confinement and Controlled skyrmion Motion in Magnonic Antidot Lattices
40	Sourav Kanthal	S. N. Bose National Centre for Basic Sciences	Unique Magnetic property of Mineral Franciscite Cu ₃ Nd(SeO ₃) ₂ O ₂ Cl
41	Apurba Dutta	Saha Institute of Nuclear Physics	Observation of Griffith's Phase in Undoped Multiferroic GaFeO ₃ Compound
42	Pratap Pal	IIT Kharagpur	Emergent antiferromagnetism of YTiO ₃ in YTiO ₃ -CaTiO ₃ superlattice
43	Payel Das	Department of Physics, Jadavpur University	Current-voltage characteristics in superconducting Nd _{1-x} Ce _x Ba ₂ Cu ₃ O _{6.9} and possibility of Kosterlitz-Thouless transition
44	Koustav Dutta	S N Bose National Centre for Basic Sciences	Field Controlled Spin Wave Dynamics for Permalloy Triangular Nanorings

45	Suvayan Saha	Center for Research in Nanoscience and Nanotechnology, University of Calcutta	Strain Induced Evolution of Griffiths Phase in Polycrystalline $\text{La}_{0.4}(\text{Ca}_{1-x}\text{Sr}_x)_{0.6}\text{MnO}_3$ ($x=0.4, 0.5, 0.6$) compounds
46	Amrit Kumar Mondal	S. N. Bose National Centre for Basic Sciences	Investigation of Magnonic Band Structure in Array of Connected Ferromagnetic Dots
47	Bibekananda Das	Indian Institute of Technology Madras	Structural, Morphological and Magnetic Properties of $\text{ZnO}/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Heterostructures
48	Amit Kumar Naiya	UGC DAE Consortium for Scientific Research, Indore	Low Temperature Thermal Study on GaFeO_3
49	Supriyo Majumder	UGC DAE Consortium for Scientific Research	Anti-site disorder modulated unusual magnetic properties in $\text{Sm}_2\text{NiMnO}_6$ double perovskite
50	Malvika Tripathi	UGC-DAE-CSR, Indore	Local short-scale correlations and the origin of pseudo-diamagnetism
51	Samiran Choudhury	S.N. Bose National Centre for Basic Sciences	Electric Field Modulation of Propagating Spin Wave Properties in Ultrathin CoFeB film
52	Joynarayan Mukherjee	TIFR Centre for Interdisciplinary Sciences (TCIS)	Anomalous Hall effect in a non-collinear antiferromagnet
53	Suman	TIFR Centre for Interdisciplinary Sciences (TCIS)	Magnetism control of Metal Pthalocyanine molecules on magnetic substrate
54	Snehal Mandal	Saha Institute of Nuclear Physics	Structural and Transport Properties of $\text{Sm}_{0.5}\text{Ca}_{0.25}\text{Sr}_{0.25}\text{MnO}_3$ Thin Films on LaAlO_3 and SrTiO_3 Substrates

55	SRABANTIKA GHOSE	SNBNCBS, Kolkata	Study on leakage current and dielectric characteristics of multiferroic gallium ferrite
56	SASWATI BARMAN	Institute of Engineering and Management, Saltlake	Magnetic Flux Closure Structure based Logic Gates and Switches
57	Anupam Gorai	Satyendra Nath Bose National Centre for Basic Sciences, Kolkata	Study of exchange coupled Core-Shell Nanostructures
58	SWARNALI HAIT	Satyendra Nath Bose National Centre for Basic Sciences, Kolkata	Formation of nanosized hollowspheres of multiferroic bismuth ferrite
59	SUPRIYO MAJUMDER	UGC DAE Consortium for Scientific Research	Anti-site disorder modulated unusual magnetic properties in Sm ₂ NiMnO ₆ double perovskite
60	SUBHAJIT PAL	School of Physical Sciences, National Institute of Science Education and Research Bhubaneswar	Yu-Shiba-Rusinov bound states induced by a spin flipper in the vicinity of a s-wave superconductor

Functional & Low Dimensional Materials (FLD)

Poster – List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1.	Saurav Islam	Indian Institute of Science, Bangalore	Origin of low temperature saturation of phase coherence length in topological insulators
2.	Md. Ali Aamir	Indian Institute of Science	Marginally Self-Averaging One-Dimensional Localization in Bilayer Graphene
3.	Rabindranath Bag	Indian Institute of Science Education and Research, Pune	Excess specific heat from the gapped sliding phonon modes in the incommensurate composite crystal $Sr_{14}Cu_{24}O_{41}$
4.	Poonam Kumari	S. N. Bose National Centre for Basic Sciences	What drives the topological insulator transition in the MX_2 (M=Mo,W; X=S,Se) family?
5.	Sumanti Patra	S. N. Bose National Centre for Basic Sciences	Electronic structure of CdX (X=S,Se and Te) nanoplatelets as a function of size
6.	Joydeep Chatterjee	S. N. Bose National Centre for Basic Sciences	Why does the electronic structure of ReS_2 show a weak dependence on the number of layers?
7.	Kavita Soni	Indian Institute of Technology Indore	Hole Injection by Zn-Doping and Non-Fermi Liquid Behavior in $NdNiO_3$ Thin Films grown by Pulsed Laser Deposition
8.	Sujay Ray	Indian Institute of Science	Wannier Pairs in the Superconducting Twisted Bilayer Graphene and Related Systems
9.	Debasmita Maiti	S. N. Bose National Centre for Basic Sciences	Quantum Phase Diagram of Frustrated Spin-1/2 System on a Trellis Ladder
10.	Venkatesh Chandragiri	Saha Institute of Nuclear Physics	Electronic structure of $NbIrX_4$ (X = Te, Se and S) compounds in monolayer form: Searching for topological features

11.	Monalisa Singh Roy	S. N. Bose National Centre for Basic Sciences	Majorana Modes in a Non-Superconducting Wire?
12.	Debashis Das	Indian Institute of Engineering Science and Tecnology, Shibpur	Collective Excitation of Fractional Quantum Hall Effect of Bose particles
13.	Debashree Roy	IISER Pune	Facile Synthesis of Dimension Tunable Concave Au Nanocuboids with Insight into Growth Mechanism
14.	Sayan Bayan	S. N. Bose National Centre for Basic Sciences	2D-graphitic carbon nitride with modified light emission characteristics
15.	Subhrajit Mukherjee	IIT Kharagpur	MoS ₂ -PbS Hybrid Heterostructure for Infrared Photodetector
16.	Dr. PRAVAS KUMAR PANIGRHI	Government College of Engineering Kalahandi, Bhawanipatna	Microwave-assisted Synthesis of Bismuth Sulfide Nanorods with small lateral dimension
17.	PRANAV	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Direct Exfoliation of Graphite from Carbon dots derived from Cannabis Sativa
18.	Snehamoyee Hazra	S. N. Bose National Centre for Basic Sciences	Hydrothermal growth of PZT (Lead Zirconate Titanate) nanowires
19.	Didhiti Bhattacharya	S. N. Bose National Centre for Basic Sciences	Size dependent optical properties of MoS ₂ nanoparticles and its photocatalytic application
20.	Ashwini Varpe	H.P.T Arts and R.Y.K. Science College	Synthesis and characterization of ZnFe ₂ O ₄ @Al ₂ O ₃ core-shell nanoparticles
21.	Tuhin Maji	S. N. Bose National Centre for Basic Sciences	Halide-Modulated Functionality of Wide Band Gap Zinc Oxide Semiconductor Nanoparticle

22.	Soumya Ranjan Das	Indian Institute of Science Education and Research, Tirupati	Layer-by-Layer Oxidation Induced Electronic Properties in Transition-Metal Dichalcogenides
23.	Dr. SOUMYA SASWATI SARANGI	Veer Surendra Sai University of Technology (VSSUT)	Molecular Dynamics Simulation Studies On Size-dependent Melting Mechanism of Gold nano-clusters
24.	Kimberly Hsieh	Indian Institute of Science	Impact of Electron Localization on Electrical Transport and Noise at Individual Grain Boundaries in Monolayer MoS ₂
25.	Shama Perween	Rajiv Gandhi Institute of Petroleum Technology	Lauric acid-Stearic acid binary mixtures in electrospun PVA-PDMS mats: Altered phase behaviour of the mixture and improved mechanical properties of the mats
26.	Dr. Badiur Rahaman	Aliah University	Comparative study of Sr ₂ Fe ₃ Ch ₂ O ₃ (Ch=S, Se): AFM spin S=2 ladder systems
27.	Dipika Mandal	S. N. Bose National Centre for Basic Sciences	NiFe ₂ O ₄ Nano-Hollow Spheres with Improved Magnetic and Dielectric Properties
28.	Chandan Samanta	S. N. Bose National Centre for Basic Sciences	A study on wavelength dependent persistence photoconduction of indium gallium zinc oxide thin film
29.	Dr. Rabindra Nath Gayen	Presidency University	Transparent Graphene Oxide-Zinc Oxide nanocomposite thin films for Optoelectronics application
30.	Somnath Chanda Roy	Indian Institute of Technology (IIT) Madras	Fabrication and characterization of one dimensional BiFeO ₃ nanostructures

31.	Shyamasree Gupta	National Institute of Technology, Durgapur	Highly selective Formaldehyde Gas Sensor: wet-chemical synthesis of hierarchical flower-like ZnO nanostructure
32.	Kotari Srinivasarao	Sasi Institute of Technology and Engineering	Effect of Titanium doping on gas sensing properties of MoO ₃ thin films
33.	Indranil Chakraborty	S. N. Bose National Centre for Basic Sciences	Assemble of Bovine Serum Albumin with Fluorescent Tartrate Modified MnFe ₂ O ₄ Nano Hollow Sphere: An Effect on LMCT and d-d Transition
34.	Puja Ghosh	CSIR Central Glass and Ceramic Research Institute	Bi-functional Applications of Nano-Structural Zinc Stannate
35.	SOURAV GHOSH	IISER Kolkata	Mesoporous γ -Al ₂ O ₃ : Template free design and Catalytic efficiency towards conversion of Epoxide to Cyclic Carbonate
36.	Preeti Lata Mahapatra	CSIR Central Glass and Ceramic Research Institute	Effect of Surface Functionalization and Modification of Structure on Moisture Sensitivity of MWCNT.
37.	Rupali Rakshit	The Institute of Scientific and Industrial Research, Osaka University	Metallicity in Conventionally Insulating Co ₃ O ₄ Micro-hollow Spheres
38.	Shewli Pratihar	CSIR Central Glass and Ceramic Research Institute	Sol-gel synthesized ZnO rods of different aspect ratio for self-powered sensor application

39.	RANA DALAPATI	IIT Guwahati	Sol-gel Synthesis of Monolithic UiO type Metal-Organic Framework from Metal-Organic Gel
40.	PARTHA PRATIM MONDAL	CSIR Central Glass and Ceramic Research Institute	Development of Sol-gel Derived ZnCr ₂ O ₄ Based Nanoporous Thick Film Humidity Sensor
41.	UTKARSHITA KAUSHAL	CSIR Central Glass and Ceramic Research Institute	Fabrication and Characterization of Porous Alumina-Zirconia Composite for Support Application in Dense Ceramic Membrane Assembly for Gas Separation
42.	Kotha Vishal	Indian Institute of Technology Bombay	Low Temperature Synthesis of K-doped LaMnO ₃ Microcubes
43.	Injamamul Arief	Universite Claude Bernard Lyon	Wool-Ball Shaped Core-Dual-Shell FeCo@SiO ₂ @MWCNTs Microcubes for Electromagnetic Interference (EMI) Shielding
44.	POULAMI BARIK	Vidyasagar University	Enhanced Dielectric behavior of Graphene Oxide / Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ composite compared to Graphene Oxide / ZnFe ₂ O ₄
45.	Dibyendu Dey	Indian Institute of Technology Kharagpur	Magnetic transition, nature of spiral state, and absence of electric polarisation in Sr doped YBaCuFeO ₅ : A DFT + QMC study
46.	ANIRUDDHA DAS	Indian Institute of Technology Guwahati	A Dual Functional MOF-Based Fluorescent Sensor for Intracellular Phosphate and Extracellular 4-Nitrobenzaldehyde

47.	Mukulika Jana Chatterjee	Indian Institute of Engineering Science and Technology	Role of Polypyrrole Synthesized with Different Oxidants as Visible Light Driven Photocatalysts towards the Degradation of Rose Bengal Dye
48.	Aminur Rahaman	IIT Kharagpur	Tetramer Orbital Ordering in Chiral Tetragonal Structure of MnTi ₂ O ₄
49.	SOUTICK NANDI	Indian Institute of Technology Guwahati	A Metal-Organic Framework Showing Highly Selective and Sensitive Detection of Exogenous and Endogenous Formaldehyde
50.	CHIRANJIB GOGOI	Indian Institute of Technology Guwahati	A new quinoline based luminescent Zr(IV) metal-organic framework for the ultrasensitive recognition of 4-nitrophenol and Fe(III) ion.
51.	KUSHAL MAZUMDER	Indian Institute of Technology Indore	Preparation of Ni doped topological insulator Bi ₂ Se ₃ nanoparticles by hydrothermal method and discovering their enhanced field emission properties
52.	Dr. Manoj Kumar Bharty	Banaras Hindu University	Ni(II) and Mn(II) complexes of N'-(2-furan-3-carbonyl)hydrazine carbodithioic acid ethyl ester: Synthesis, spectral, structures, photoluminescence, thermal and electrochemical studies
53.	TOPI GHOSH	IIT INDORE	Hybrid supported cobalt doped cerium oxide as a heterogeneous catalyst towards efficient catalytic organic transformation.
54.	Pratap Pal	IIT Kharagpur	Engineering beyond-room temperature multiferroicity in Bi and Fe co-doped BaTiO ₃

55.	Mausumi Ray	S.N. Bose National Centre for Basic Sciences	Theoretical study on interaction at the nano-bio interface
-----	-------------	--	--

Energy Materials & Molecular Electronics (EMME)

Contributory Talk – List

<u>Serial No</u>	<u>Name</u>	<u>Designation</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Gobinda Gopal Khan	Faculty	Tripura University	Engineering of functional oxide nano structures for solar energy harvesting

Poster - List

<u>Serial no</u>	<u>Name</u>	<u>Affiliation</u>	<u>Title of presentation</u>
1	Dwaipayan Chakraborty	Shiv Nadar University	Computational design of a D- π -A type small organic molecule: Prediction of its crystal structure and study of transport and opto-electronic properties
2	Anirban Dutta	Indian Association for the Cultivation of Science, Jadavpur	Phase-Stable CsPb ₁₃ Nanocrystals: The Reaction Temperature Matters
3	Sayantani Das	Jadavpur University	Synthesis and Characterization of All-Inorganic Perovskite CsPbX ₃ Nanocubes
4	Nikita Chhetri	Majitar, East Sikkim	Fabrication of p-type Polycrystalline Silicon Seed Layer using RF-PECVD for Thin film Solar cells
5	Anuj Kumar	Central Glass and Ceramic Research Institute	Hybrid SnO ₂ /Graphene nanostructures as Anode Materials for Lithium Ion Batteries
6	Dipanjana Maity	S.N. Bose National Centre for Basic Sciences	Visible Light driven water electrolysis with ZnO/MoO ₃ nano heterojunction photoanodes
7	Keshab Karmakar	S.N. Bose National Centre for Basic Sciences	The role of oxygen vacancies and lattice strain defects in photoelectrochemical properties of Li, Na, K doped ZnO nanorods
8	Pulak Pal	Indian Association for the Cultivation of Science (IACS), Kolkata	Ionic liquids based gel polymer electrolytes for electrochemical double layer capacitors: Influence of cation size and viscosity of ionic liquids

9	Prakriti Adhikary	Jadavpur University	Performance of a Polymer Nanogenerator Composed of Ionic Liquid doped Electrospun P(VDF/HFP) Nanofibers
10	Abhishek Sasmal	Central Glass and Ceramic Research Institute	BiFeO ₃ -Poly(vinylidene fluoride) Composite: A New Lead Free Flexible Material for Energy Storage and Energy Harvesting Application
11	Suparna Bhattacharyya	Central Glass and Ceramic Research Institute	ZrO ₂ incorporated TiO ₂ based transparent hard reflective coatings on glass useful as a building component
12	Avijit Pal	Central Glass and Ceramic Research Institute	DEVELOPMENT OF PIEZOCOMPOSITES FOR MECHANICAL ENERGY HARVESTING
13	Sagar Ganguli	IISER Kolkata	Edge of sulfides over pure oxides as water oxidation electrocatalysts: A study through electrochemistry, microscopy and nanoindentation on mesoporous NiCo ₂ O ₄ and NiCo ₂ O _x S _{4-x}
14	Abdulla Bin Rahaman	IIT Kharagpur	Space charge limited conduction and optoelectronic applications of RGO-ZnTTBPC hybrid composite
15	Tapabrata Dam	Indian Association for the Cultivation of Science (IACS), Kolkata	Investigation of Ion conduction mechanism and electrochemical performance of gel polymer electrolytes in EDLCs
16	Sirshendu Ghosh	Indian Association for the Cultivation of Science (IACS), Kolkata	Optical Properties of Cs ₂ SnI ₆ Perovskite Nanoparticle
17	Sudeshna Patra	Tata Institute of Fundamental Research, Hyderabad	Solid State Ion Transport Membranes for Energy Applications

18	Piyali Chatterjee	National Institute of Technology Durgapur	Photoelectrochemical water splitting by hydrothermally synthesized Ceria-CNT composite
19	Susmita Bera	Central Glass and Ceramic Research Institute	A Ternary Plasmonic Cu-Ag/AgVO ₃ Heterostructured Photocatalyst for Solar Photocatalytic H ₂ Generation
20	Shoroshi Dey	Central Glass and Ceramic Research Institute	Synthesis and characterization of Ba _x Sr _{1-x} Co _{0.8} Fe _{0.2} O _{3-δ} based material for use as anode in solid oxide electrolyser cell
21	Ankita Kumari	Central Glass and Ceramic Research Institute	Visible-Light Driven Photocatalytic Activity of MoS ₂ Based Nanocomposites for H ₂ Generation
22	Prama Adhya	Central Glass and Ceramic Research Institute	Carbon Dioxide Capture in Layered Double Hydroxide Nanosheets
23	Tapan Ghosh	IISER Kolkata	H and J dimmers exclusively exist in polymorph of a single molecular semiconductor crystal: Optical outcome of molecular packing and shearing induced irreversible transformation of single crystal
24	Abdul Alim	Central Glass and Ceramic Research Institute	Fabrication & Characterization of Ni-Ba _{0.8} Ce _{0.35} Zr _{0.5} Tb _{0.15} O _{3-g} Based Dense Membrane Assembly for Hydrogen Separation
25	Dipak Mazumdar	Saha Institute of Nuclear Physics	Large anisotropic magnetocaloric effect in single crystalline Sm _{0.5} Ca _{0.25} Sr _{0.25} MnO ₃ compound
26	Milon Miah	Indian Association for the Cultivation of Science (IACS), Kolkata	Fe intercalated few-layers reduced graphene oxide (rGO) for high performance supercapacitor application
27	P Rajagopalan	IIT Indore	Enhancement in ZnO nanogenerator output via la doping
28	Mohua Chakraborty	IISER Kolkata	Efficient charge separation by Bi-SPR promoted Bi ₂ MoO ₆ thin films for photo-electrochemical water oxidation
29	Debmallya Das	Indian Association for the Cultivation of Science (IACS), Kolkata	Photocatalytic water splitting under visible light irradiation by the self-assembled Chlorophyll-a/Graphene nano-hybrid system

30	Ayon Karmakar	Indian Institute of Technology, Kharagpur	Temperature Controlled Fabrication of Spinel Copper Cobalt Oxide Nanochains: An Efficient Oxygen Evolution Electrocatalyst
31	Ankul Prajapati	Sardar Vallabhbhai National Institute of Technology	Numerical Investigations on Band Alignment in Semiconductor Heterostructure using Anderson's Rule
32	Harish Reddy Inta	IISER Kolkata	Ionic liquid intercalated MoS ₂ for Energy storage applications
33	Shyni P.	University of Calicut	Morphological tuning of Bi ₂ Te ₃ For Thermoelectric Applications
34	Aatreyee Sarkar	NIT Durgapur	Surface Modification of Carbon Nanotubes by Cobalt Sulfide Nanoparticles and Its Application in Dye Sensitized Solar Cells
35	Kuntal Maity	Jadavpur University	All Organic Piezoelectric Nanogenerator for Self-Powered Electronics and Human Physiological Signal Monitoring
36	Shib Shankar Singha	Brahmananda Keshab Chandra College	Manganese Doped MoS ₂ Nanoflowers: An Efficient Material for Supercapacitor Electrode
37	Sumit	Saha Institute of Nuclear Physics	Multifunctional reduced graphene oxide (RGO) wrapped circular Au nanoplatelets: enhanced photoluminescence, surface enhanced raman scattering, photocatalytic water Splitting and non-enzymatic biosensor
38	Shammi Rana	IISER Pune	Arresting Fe(II)-CN-Cu(I) Coordination Link at Solid-Liquid Interface for Electro-catalytic Application
39	Jony Saha	Central University of Rajasthan	Iron-Cerium Phosphate based Mesoporous Thin Films for Electrochemical Water Splitting
40	Parita Basnet	Sikkim Manipal Institute of Technology	Biosynthesis of Ag-ZnO Nanocomposites for the Reduction of p-Nitro Phenol - an organic waste
41	Dhrubajyoti Samanta	Sikkim Manipal Institute of Technology	Sunlight Driven Photocatalytic Degradation of Water Pollutant using Glucose Stabilized Ag-ZnS Nanocomposite

42	Rajnarayan De	Bhabha Atomic Research Centre	Optical and Photocatalytic behavior of GLAD N2-TiO2 thin films
43	Deshpande Swapnil Sanjay	H. P. T. Arts and R. Y. K. Science College	CO2 storage on functionalized holey C2N monolayer: A Density functional study
44	Sankar Das	S. N. Bose National Centre for Basic Sciences	Synthesis of Hybrid Nanocomposites for High-Performance CO2 Capture
45	Anupam Prasoon	IISER Pune	Thermally Driven Resistive Switching in Solution Processable Thin Films of Coordination Polymers
46	ARUN KUMAR AGARWAL	IIT Kanpur	Effects of molecular weight and annealing on electrical properties of nanoscale PANI-CSA thin films
47	Prithwidip Saha	Indian Institute of Technology Kanpur	Selection of Self-assembled Patterns of 1,3-Dithia Derivatives of Ferrocene by the Nature of the Solvent
48	Somnath Acharya	IIT Mandi	Enhanced Thermoelectric Performance in Transition Metal and Rare-Earth Element Doped SnTe
49	Pronoy Nandi	IOP Bhubaneswar	Role of organic cation in dual emission of hybrid perovskite CH ₃ NH ₃ PbBr ₃
50	Ransell D'Souza	S.N. Bose National Centre for Basic Sciences	Theoretical and Computational Studies on the Thermoelectric Properties of Dichalcogenides and Bulk Monotellurides
51	Subhajit Nandy	IIT Madras	Effect of oxygen vacancies on photoconductivity and photovoltaic properties of Bi _{1-x} CaxFeO _{3-d} thin films
52	Shubhadeep Pal	TIFR, Hyderabad	Heterogeneous Catalysis using Mesoscopic interfaces
53	Ravinder Kumar	TIFR, Mumbai	Molecular breadboard circuits: Basis circuits and conformations
54	Sujan Maity	Indian Association for the Cultivation of Sciences	1D-2D hybrid nanoelectronic device in view
55	Biswajit Pabi	S.N. Bose National Centre for Basic Sciences, Kolkata	Developing set up to major thermal transport through a single molecular junction
56	Biswajit Kumar Barman	IISER Kolkata	Resistive switching in organic semiconductor diodes : perception in point of view of structure and self assembly