

65th DAE Solid State Physics Symposium

December 15 – 19, 2021

Poster, Ph.D Thesis and Young Achiever Award

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Poster Award

Poster Award

Poster	Title	Author	Affiliation
a0006	Topological Phase Transition at Quantum Criticality	Ranjith R Kumar; Sujit Sarkar	Poornaprajna Institute of Scientific Research
a0009	Quantitative Phase Fraction Analysis of Ball Milled FeSiB Powder Mixture using the Rietveld Method: Effect of Micro-absorption	Ashok Bhakar; Pooja Gupta; Archana Sagdeo; S. K. Rai	Raja Ramanna Centre for Advanced Technology

Poster Award

Paper no	Title	Author	Affiliation
b0009	Effects of L-Phenylalanine on a Model Phospholipid Membrane	Prashant Hitaishi;Sajal K. Ghosh	Shiv Nadar University
b0014	Water Vapor Triggered Rapid Actuation of Cotton Films	Aathira Murali;P B Sunil Kumar;Dillip K. Satapathy	IIT Pallakad

Poster Award

Paper no	Title	Author	Affiliation
c0035	Electrochemical study of Nanosized Co _{0.5} Zn _{0.5} Fe ₂ O ₄ Synthesized by Hydrothermal Method	K. Sarkar, R Mondal, D. Majumdar, S.K. Bhattacharya, S. Kumar	Jadavpur University
c0103	Possible Origin of Local Symmetry Breaking in Transition Metal Doped SnO ₂ Nanocrystals	S. Roy, A.K. Ghosh, S.K. Sharma, S. Roy, A.G. Joshi, R.K. Singh, S. Chatterjee	Indian Institute of Technology Indian School of Mines, Dhanbad

Poster Award

Paper no	Title	Author	Affiliation
d0004	A GUI-based 2D-SAXS Data Analysis Software for Study of Anisotropic Structure in Mesoscopic Length-scale	Avik Das;Jitendra Bahadur;Debasis Sen	Bhabha Atomic Research Centre
d0008	Curved Structured 3D Printed Flexible Triboelectric Nanogenerator	Anand Babu;Dipankar Mandal	Institute of Nano Science and Technology

Poster Award

Paper no	Title	Author	Affiliation
e0003	Characterization of Polystyrene based Plastic Scintillator for Neutron Detection Applications	Lizbeth Alex;P Rajesh;Mohit Tyagi	Ssn College of Engineering
e0004	In vitro bioactivity of bismuth containing borate-based glasses	Sathaiah Murimadugula ;Syam prasad P	National Institute of Technology Warangal

Poster Award

Paper no	Title	Author	Affiliation
f0043	Amine Functionalized Fe-MOF Membranes for Enhanced Flux and Rejection	K Vinothkumar;C Lavanya;Balakrishna R Geetha	Jain University Banaglore
f0091	Tuning of electronic and magnetic properties SrRuO3 thin film via electric field assisted growth	Anita Bagri;Sophia Sahoo;Anupam Jana;R.J. Choudhary;D. M. Phase	Ugc Dae Consortium for Scientific Research Indore

Poster Award

Paper no	Title	Author	Affiliation
g0003	Importance of the type of coulomb interaction in DFT+DMFT method to study magnetic and electronic properties of Nickel	Shivani Bhardwaj;Antik Sihi;Sudhir K. Pandey	Indian Institute of Technology Mandi
g0007	Energy Loss Rate in Bilayer Graphene on GaAs Substrate due to Piezoelectric Phonon Scattering	Meenhaz Ansari;S.S.Z. Ashraf	Aligarh Muslim University

Poster Award

Paper no	Title	Author	Affiliation
h0004	Crystallization Of Insecticidal Toxin, Txp40 From Xenorhabdus nematophila	Omkar Kinkar;Arpit Parashar ;Ashwani Kumar;Ramesh Hire;Ravindra Makde	Bhabha Atomic Research Centre
h0031	Development of SEM Detectors using Indigenous YAP:Ce Scintillators	S. S. Pany;S. G. Singh;Y. V. Chaudhari	Bhabha Atomic Research Centre

Poster Award

Paper no	Title	Author	Affiliation
i0011	Extremely High Magnetoresistance in Perfect Electron-Hole Compensated WTe ₂ Weyl Semimetal	Abhishek Singh;Souvik Sasmal;Kartik K Iyer;A. Thamizhavel ;Kalobaran Maiti	Tata Institute of Fundamental Research^ Mumbai
i0024	Optical, Electrical and Transport Properties of α -In ₂ Se ₃ Crystal	Divya Rawat;Niraj Kumar Singh;Kewal Singh Rana;Ajay Soni	Indian Institute of Technology Mandi

Poster Award

Paper no	Title	Author	Affiliation
j0004	Optimization of Post-Treatment Annealing Conditions for RF Sputtered CIGS Thin Films	Sachin Desarada; Kalyan Chavan;Nandu Chaure	Savitribai Phule Pune University
J0008	Depth Profile Analysis of Gold Ions in Silicon <100> Substrate	Md. Akhlak Alam;Ayushi Trivedi;M. K. Tiwari	Raja Ramanna Centre for Advanced Technology

Poster Award

Paper no	Title	Author	Affiliation
k0028	Two-dimensional Short-range Magnetic Correlations in the Geometrically Frustrated Maple Leaf Lattice ($S= 3/2$) compound $\text{Na}_2\text{Mn}_3\text{O}_7$	Bikash Saha;A. K. Bera;S. M. Yusuf	Bhabha Atomic Research Centre
k0035	Transient reflectance ultra fast spectroscopy in PLD grown $\text{Y}_3\text{Fe}_5\text{O}_{12}/\text{Gd}_3\text{Ga}_5\text{O}_{12}$	S. Satapathy, Mahesh Kumar, R. Kumar et al	NPL, Delhi

Poster Award

Paper no	Title	Author	Affiliation
I0051	Crystalline Characteristics Dependent Pseudocapacitance Property of Na ₂ Ti ₃ O ₇ as a Negative Electrode for Sodium Ion Supercapacitors	Puja De;Debabrata Mandal;Abhishek Kumar;Sudipta Biswas;Amreesh Chandra	Indian Institute of Technology Kharagpur
I0054	Metal-Organic Framework [Zn ₂ (1,4-bdc) ₂ (dabco)] _n as an efficient Electrocatalyst for H ₂ O ₂ Production in Oxygen Reduction Reactions	VRUSHALI RAUT;DIPANWITA DAS	Institute of Chemical Technology Mumbai

Poster Award

Paper no	Title	Author	Affiliation
m0016	Energy-loss in Graphene superlattice	KAVITA N MISHRA et al	The Maharaja Sayajirao University of Baroda
m0025	A Comparison of Transient Optical Response of a Monolayer MoS ₂ near to its A, B, and C Excitons	Durga Prasad Khatua;Sabina Gurung ;Asha Singh;Salahuddin Khan;J Jayabalan	Homi Bhabha National Institute Mumbai

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Ph.D Thesis Award

Ph. D. Thesis Award

ANIL K. AND BHARATI BHATNAGAR AWARD for BEST THESIS PRESENTATION 2020

Name	Affiliation	Thesis
Balasubramanian S	IGCAR, Kalpakkam	Fabrication and Characterization of SiO ₂ Microcantilevers For Relative Humidity Sensing

Ph. D. Thesis Award

ANIL K. AND BHARATI BHATNAGAR AWARD for BEST THESIS PRESENTATION 2021

Name	Affiliation	Thesis
Manas Ranjan Panda	IITB, Mumbai	Advanced Electrodes From 2D Layered Materials For Li ⁺ and Na ⁺ Storage

Ph. D. Thesis Award

Name	Affiliation	Thesis
Piyali Sarkar Roy	BARC, Mumbai	Preparation and Characterization of Thin Film Multilayer Devices for Application in Water Window Regime of Soft X-Ray

Ph. D. Thesis Award

Name	Affiliation	Thesis
Pampa Sadhu Khan	UGC-DAE CSR, Mumbai	Electronic structure and morphology of Manganese based alloys and thin films

Ph. D. Thesis Award

Name	Affiliation	Thesis
Ashutosh Mohanty	IISC, Bengaluru	Structure, Dielectric Property and Cation Dynamics In MA _{1-y} FA _y PbX ₃ (X = I, Br) Perovskites

Ph. D. Thesis Award

Name	Affiliation	Thesis
Arindam Pramanik	TIFR, Mumbai	Anomalies in the Dirac states - a high-resolution photoemission spectroscopic study

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Young Achiever Award

Young Achiever Award

Name	Affiliation	YAA Title
Veerendra Kumar Sharma	BARC, Mumbai	Microscopic Diffusion in Biomembrane: Effect of Interactions with Drugs

Young Achiever Award

Name	Affiliation	YAA Title
Dipanshu Bansal	IITB, Mumbai	Investigating quasi-particle coupling in momentum-energy and space-time domain

Young Achiever Award

Name	Affiliation	YAA Title
Saswata Bhattacharya	IIT Delhi	Exploring Optical Properties in Perovskites-Based Solar Cells from Many-body Perturbation Theory

Young Achiever Award

Name	Affiliation	YAA Title
Mayank Kumar Gupta	BARC, Mumbai	Anharmonic atomic dynamics in Functional Materials