

66th DAE-Solid State Physics Symposium

December 18-22, 2022

Poster, Ph.D. Thesis and Young Achiever Award

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Poster Award

Poster Award

Category 'a'

Poster	Title	Author	Affiliation
a0005	Signatures of biaxial strain induced topological phase transition in non-centrosymmetric AgCaAs	Bhautik R. Dhori	The Maharaja Sayajirao University of Baroda, Vadodara
a0036	Cyclohexane Under Laser-Driven Shock Compression	Ashutosh Mohan	BARC, Mumbai

Poster Award

Category 'b'

Poster	Title	Author	Affiliation
b0006	Diffusion in a Complex Mixture with Random Pairwise Interparticle Interactions	Shuvalaxmi Das	Birla Institute of Technology, Mesra Ranchi
b0003	Probing Stability of Charged Colloids in Re-entrant Phase	Himanshi Singh	BARC, Mumbai

Poster Award

Category 'c'

Poster	Title	Author	Affiliation
c0006	Investigation of temperature effect on the electrochemical performance of MoSe ₂ @FeOOH composite	Shweta Tanwar	Central University of Punjab, Bathinda
c0023	CoSe ₂ as an Ultrafast Saturable Absorption in Near-Infrared and Visible region	Ankit Sharma	Indian Institute of Science Education and Research Bhopal
c0090	Important of Maghemite Nanoparticles Coated with 2-Benzoylpyridine as Magnetic Fluid Hyperthermia Therapy	Chandi Charan Dey	Burdwan University, Burdwan

Poster Award

Category 'd'

Poster	Title	Author	Affiliation
d0019	Study of Higher Harmonic Contamination in Indus-2 Soft X-ray Reflectivity Beamline	Rajkumar Gupta	RRCAT, Indore
d0039	^{59}Co NMR structural comparison of bulk Cobalt and Carbon Encapsulated Cobalt Nanopowder	Manjunatha M .	Shri Gavisiddeshwara Arts Science and Commerce College, Koppal

Poster Award

Category 'e'

Poster	Title	Author	Affiliation
e0011	Investigations Of Praseodymium Doped LiF-ZnO-Bi ₂ O ₃ -B ₂ O ₃ glass matrix for Photonic Applications	Jyoti Dahiya	Deenbandhu Chhotu Ram University of Science and Technology, Murthal
e0033	Investigating the effect of raw materials on properties of LiI:Eu single crystal scintillators	Sonu	BARC, Mumbai

Poster Award

Category 'f'

Poster	Title	Author	Affiliation
f0052	UV Light Driven Enhanced Photoconductivity in SILAR Deposited ZnO Thin Films	Swati Pujar	Manipal Institute of Technology, Manipal
f0056	Effect Of Film Thickness On The Structural and Magnetic Properties of $\text{Co}_2\text{FeAl}_{0.5}\text{Si}_{0.5}$ Heusler Alloy Thin Film	Lanuakum A. Longchar	University of Hyderabad, Hyderabad

Poster Award

Category 'g'

Poster	Title	Author	Affiliation
g0018	Bulk EuFeO ₃ : Correlation between Urbach energy and Phonon width via Optical & Raman Investigations	Omkar V. Rambadey	Indian Institute of Technology Indore, Indore
g0019	Strain Tunable Magnetism in Janus MoSX (X = S, Se, Te) Monolayers with Vacancy Defects	Saumen Chaudhuri	Indian Institute of Technology Kharagpur, Kharagpur

Poster Award

Category 'h'

Poster	Title	Author	Affiliation
h0004	Study of La Substituted Four-Layer Aurivillius Bi ₅ FeTi ₃ O ₁₅ Ceramics	Deepak Prajapat	UGC-DAE Consortium for Scientific Research, Indore
h0013	Structural Modifications, Surface Morphology, Dielectric and. Ferroelectric Properties of (Sr, Mn) co-doped BaTiO ₃	Mehroosh Fatema	Aligarh Muslim University, Aligarh

Poster Award

Category 'I'

Poster	Title	Author	Affiliation
i0020	Valley-Controlled Transport in an Optically Driven Dice Lattice	Lakpa Tamang	University of North Bengal, Rajarammohunpur
i0024	Magnetic and Transport Properties of GdBi Single Crystal	Gourav Dwari	Tata Institute of Fundamental Research, Mumbai

Poster Award

Category 'j'

Poster	Title	Author	Affiliation
j0011	Defect mediated functional properties of organic inorganic hybrid perovskite materials	Sudipta Moshat	Variable Energy Cyclotron Centre , Kolkata
j0028	Tuning of photocurrent by the variation of magnetic field in Si/NiFe ₂ O ₄ /ZnO-rGO heterostructure device	Priyanka Banerjee	Kazi Nazrul University, Asansol

Poster Award

Category 'k'

Poster	Title	Author	Affiliation
k0012	Morphology-dependent magnetic properties of cobalt sulfide (CoS)	Gopika M S	University of Kerala, Karyavattom
k0042	Structural and Magnetic Studies of BaFe ₁₂ O ₁₉ /Ba ₂ Co ₂ Fe ₁₂ O ₂₂ Composite Hexaferrite	Sonal Singh	Thapar Institute of Engineering & Technology, Patiala
k0067	Structural and Transport Study in Transition Metal Dichalcogenide 2H-TaS ₂	M. Singh	Jawaharlal Nehru University, New Delhi

Poster Award

Category 'I'

Poster	Title	Author	Affiliation
I0054	Investigations on transition metal doped TiO ₂ thin film anodes for li ion battery	V Bhasin	BARC, Mumbai
I0065	Li-ion Diffusion in amorphous LiAlGeO ₄ using ab-initio molecular dynamics simulation	Sajan Kumar	BARC, Mumbai
I0083	Scandium co-doped Barium Cerate: Fast and Stable Electrolyte for Intermediate Temperature PC-SOFC	Bibek Kumar Sonu	Birla Institute of Technology, Mesra, Ranchi

Poster Award

Category 'm'

Poster	Title	Author	Affiliation
m0006	Theoretical Study of Exciton Mott Transition in Quantum Wells through Interband Transition Energy of Excitons	Nithiananthi P.	The Gandhigram Rural Institute-DU, Gandhigram
m0025	3,4,9,10-Perylencetetracarboxylic acid dianhydride Seeding Promoted Monolayer Large Area 2D Rhenium Disulphide Growth	Navaneeth Krishnan Konnoth Mana	IISER - Thiruvananthapuram

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Ph. D. Thesis Award

Ph.D. Thesis Award

Name	Affiliation	Thesis
Rabindra Nath Juine	Bhabha Atomic Research Centre, Facilities, Kalpakkam	ZnS Nano particles for Photo catalysis, Optical Detector and Environmental Remediation

Ph.D. Thesis Award

Name	Affiliation	Thesis
Deepak	Bhabha Atomic Research Centre, Mumbai	Understanding of Negative Magnetization and its correlation with Exchange Bias and other Physical Properties

Ph.D. Thesis Award

ANIL K. AND BHARATI BHATNAGAR AWARD
for BEST THESIS PRESENTATION
2022

Name	Affiliation	Thesis
Vipin Kumar Singh	UGC-DAE Consortium for Scientific Research, Indore	Studies on adlayer and surfaces of quasicrystals and advanced materials

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Young Achiever Award

Young Achiever Award

Name	Affiliation	Thesis
Sugam Kumar	Bhabha Atomic Research Centre, Mumbai	Probing Structure and Interaction in Multi-components Soft Matter

Young Achiever Award

Name	Affiliation	Thesis
Barid Baran Lahiri	IGCAR, Kalpakkam	Static and dynamic phenomena in magnetic nanofluids and nanoemulsions: biomedical and sensor applications