

Final List for Poster Presentation

Poster Labelling		Name	Abstract
Day 1 (20 Dec 2023)			
PP-001	Ms.	Shikha Rathi	Zeeman spectroscopy of tellurium
PP-002	Dr.	Sunil Thomas	Sm ³⁺ -doped Strontium Calcium Borate Phosphor for White Light Emission
PP-003	Ms.	Pinalben Chandrakantbhai Mer	Electron interactions with Astromolecules
PP-004	Ms.	Smruti Parikh	Inelastic Mean Free Path, Mass Stopping Power and Absorbed dose calculation for aqueous DNA compounds
PP-005	Ms.	Barad Nehaben Devchandbhai	Positron impact total ionization cross-sections for Halogen molecules
PP-006	Mrs.	Vinita	Highly Sensitive Surface Acoustic Wave (SAW) Resonator as Ozone Gas Sensor
PP-007	Mr.	Himanshu	Evidence of Ferromagnetic Quantum Criticality in Ternary LaCoX (X = Si and Ge)
PP-008	Dr.	Ashok Chaudhari	ELECTRON INDUCED IONISATION FOR TETRAMETHYLMETHANE AND TETRAMETHYLGERMANE
PP-009	Dr.	Harshad Bhutadia	ELECTRON INDUCED IONISATION AND EXCITATION CROSS SECTIONS FOR BROMOTRIFLUOROMETHANE
PP-010	Ms.	SUDESHNA GHOSH	Theoretical investigation of structure and spectroscopic constants of germanium dichloride (GeCl ₂) and dibromide (GeBr ₂) and their ionic systems
PP-011	Dr.	Amar Nath Sil	Spectral Properties of Bound and Resonance 1,3Fe States of Helium Atom under Debye Plasma
PP-012	Dr.	Tapan Kumar Mukhopadhyay	Binding Energies of hydrogen atom moving in classical plasma
PP-013	Ms.	Soma Naskar	Ab initio calculations and reaction kinetics of the reaction I ⁻ + O ₃ → IO ⁻ + O ₂
PP-014	Ms.	Gargi Nandi	Ab initio study of the reactions of O ₃ with Hg ₀ , Cl and Br

PP-015	Mrs.	Pooja Kumari	Ion induced dissociation dynamics of 1,3-butadiene
PP-016	Ms.	Neha Sharma	Potential energy curves of electronic excited states and photodissociation dynamics of aldehydes: A computational perspective
PP-017	Ms.	VANDANA RAWAT	Photoabsorption Studies of Astrophysical PAHs: A revisit of the Naphthalene VUV spectrum using Synchrotron Radiation
PP-018	Mr.	SAGAR VADHEL	Low energy electron scattering study of HC5N.
PP-019	Mr.	ADITYA KUMAR	A NEW SETUP FOR ATOM MOLECULE COLLISION AT IUAC, NEW DELHI
PP-020	Ms.	AISWARYA R	Time delay analysis of e-C60 elastic scattering
PP-021	Ms.	Saumyashree Baral	EFFECTS OF RELATIVITY AND CORRELATION ON THE COOPER MINIMUM IN HIGH-Z ATOMS: A STUDY OF ANGULAR DISTRIBUTION PARAMETER IN np SUBSHELL PHOTOIONIZATION
PP-022	Mr.	Aakash Dixit	Design of Electrostatic Analyzer
PP-023	Mr.	SHIVANKAR	Effect of dense magnetized plasma on atomic structure and radiative properties of He-like O6+ ion.
PP-024	Mr.	Narendra Kumar	Spectroscopic study of SXR and EUV spectral lines with determination of plasma parameters and partition function of Ca X
PP-025	Dr.	Bhavsar Rakeshkumar Mahendrakumar	Electron Interactions with TiCl _x (x = 1 - 4) and CF _x (x = 1 - 4)
PP-026	Ms.	Rangeeta Dhaka	GROWTH OF GALLIUM OXIDE THIN FILM BY THERMAL OXIDATION ON GALLIUM ARSENIDE FOR OPTOELECTRONIC APPLICATIONS: STRUCTURAL AND OPTICAL CHARACTERISTICS
PP-027	Ms.	Sonia Yogi	Highly sensitive and trace-Level detection of methane using RGO/TiO ₂ hybrid nanostructure
PP-028	Ms.	Tripti Gupta	Adsorption of Cu on Pristine WSe ₂ Monolayer: A DFT Study
PP-029	Mr.	Suraj Pandey	Relativistic Coupled-Cluster Calculations of Nuclear Spin-Dependent Parity Non-conservation in Caesium
PP-030	Mr.	Manish Kumar Tekam	EXHIBITING GEOMETRIC FRUSTRATION IN DOUBLE PEROVSKITES BY LATTICE DISTORTION
PP-031	Ms.	SAKSHI	Effect Of Strontium Doping on Structural and Electrical Behavior of Bismuth Oxide

PP-032	Dr.	yogeshthakar	Electron impact on NF, NF2 andNF3
PP-033	Mr.	Aditya	A simulation study to understand the localized structure formation due to coupling of right handed circularly polarized wave with plasma oscillations in laser produced plasmas
PP-034	Mr.	AKASH	Investigation and Analysis of Perylene-Derivatives for Cutting-Edge Optoelectronic Application
PP-035	Dr.	Amit Srivastava	A facile synthesis of binary nickel ferrite -reduced graphene oxide nanocomposite for supercapacitor electrode with excellent cycling stability
PP-036	Mr.	Rohanaditya Singh Thakur	Artificial neural network-based modeling of rheological properties of Nanofluids
PP-037	Mr.	AKASH KHAMARU	MICROSTRUCTURED SQUARE CORE CdTe BASED PHOTONIC CRYSTAL FIBER OFFERING HIGH NONLINEARITY
PP-038	Dr.	Richa Jain	Cobalt Ferrite Nanoparticles in Water Treatment
PP-039	Ms.	Yoshita Katiyar	Hydrothermal synthesis of environmentally sustainable fabrication of Ag-SnO2 nanocomposite and Ag@SnO2 decorated g-C3N4 composite for enhanced photocatalytic dye degradation.
PP-040	Mr.	ANKUR RANA	Comparative studies of Mg and Ni doped ZnO thin films as electron transport layer in CH3NH3PbI3 perovskite photodetector
PP-041	Ms.	Pooja	Unveiling the Properties of Al-based Fluoroperovskites: A First-Principles Investigation
PP-042	Mr.	Nitish Ghosh	RELATIVISTIC CALCULATIONS OF ENERGY LEVEL, LIFETIMES, TRANSITION PARAMETERS, AND ELECTRON IMPACT EXCITATION CROSS SECTION FOR Xe ³⁶⁺
PP-043	Ms.	Laxmi priya Meher	Measurement of radiative lifetime of 32987 cm ⁻¹ energy level of Lu I
PP-044	Ms.	Shruti Sarswat	SHANNON ENTROPY OF RESONANT SCATTERED STATE IN ELECTRON AND C60 COLLISION
PP-045	Mr.	chinmay	SHOWCASING DISASTER EVACUATION IN CASE OF EARTHQUAKE THROUGH SERIOUS GAME
PP-046	Mr.	ARYA SEHRAWAT	SHOWCASING DISASTER EVACUATION THROUGH GAME & PREDICTION OF EVACUATION PLAN THROUGH PHYSICS BASED MOD

PP-047	Dr.	SUNNY AGGARWAL	Study of extreme ultraviolet transitions of Ir ¹⁶⁺ and Pt ¹⁷⁺
PP-048	Ms.	Ayushi Agrawal	Electron Impact Excitation Cross-Section Calculations of the Fine Structure Levels of Kr ⁺ and their Applications to Plasma Modelling of Kr ⁺
PP-049	Ms.	SMRITI KAUSHAL	ADVANCEMENTS IN PHOTONIC CRYSTAL RESONATOR BIOSENSING FOR BLOOD COMPONENT DETECTION
PP-050	Mr.	Sahil	WTe ₂ : A novel material for the detection of terahertz radiations.
PP-051	Mr.	Karamvir	OPTICAL STUDIES OF BISMUTH OXIDE THIN FILMS
PP-052	Mr.	Bharat Bhushan	Investigation of Photocatalytic properties of synthesized CuO nanoparticles
PP-053	Mr.	Ravinder Kumar	Spectroscopic studies of Eu doped LiF Singal crystal
PP-054	Mr.	Surya Pratap Singh Shekhawat	Advancements in Green Synthesis Methods of Gold Nanoparticles: A Comprehensive Review
PP-055	Mr.	Ravinder Kumar	Electron impact single ionization cross-section of L-shell of tungsten ions W ⁶⁴⁺ -W ⁷¹⁺
PP-056	Ms.	Vibha	Comprehensive Study of Crystal Structure and Morphology in Double Perovskites SrBiMTiO ₆ (M = Fe, Mn)
PP-057	Ms.	Palki	Study of two-photon E ₁ +M ₁ 1S ₀ – 3P ₀ transition in Pb ²⁺
PP-058	Ms.	Srishti Sharma	Ultracold Atom Physics in Space
PP-059	Dr.	Chinmay	Computational modeling of Planetary atmospheric flows
PP-060	Mr.	Sharwan Kumar	spectroscopic properties of H ₃ BO ₃ -Pb ₂ O ₃ -ZnO: Nb ₂ O ₃ glass system
Day 2 (21 Dec 2023)			
PP-061	Mr.	ANURAG BHANDARI	Adsorption of Cyanogen Chloride Gas on Pristine and Copper-Doped BN Monolayer: A DFT Study
PP-062	Mr.	Rahul Kundara	Performance optimization of CsSnI ₃ -based Perovskite Solar Cells with diverse ETLs and HTLs by using SCAPS-1D
PP-063	Mr.	KUMAR LAKHAN	Fabrication and Characterization of Flexible Piezoelectric Composite Film KNN-Li/ZnO/PVDF for Energy Harvesting Application.

PP-064	Mr.	JATIN CHAUHAN	A synthesis work towards the energy harvesting nanogenerator device using KNNLi/PVDF with MWCnt
PP-065	Mrs.	Komal Verma	Fabrication of lead-free PVDF/KNNLTs/MWCNT piezoelectric nanogenerator: Role of MWCNT in the piezoelectric performance of nanogenerator for energy harvesting application
PP-066	Mr.	Ankit	A Comprehensive Design and study of microwave Zero Index metasurface
PP-067	Ms.	Yashika Saraswat	Structural and photoluminescence properties of Dy ³⁺ ions doped molybdate phosphor for white lighting applications .
PP-068	Mr.	SANDIP MAURYA	Luminescent properties of Dy ³⁺ ions doped phosphate phosphor for photonic device applications
PP-069	Ms.	Nikita Jain	Investigation of Electrochemical properties of ZnO nanostructures: Influence of Morphology
PP-070	Mr.	Jasveer Singh	ELECTROCHEMICAL STUDY OF CARBON DERIVATIVES IN ALKALINE MEDIUM FOR WATER SPLITTING
PP-071	Ms.	Priyanka	Simultaneously effect of hydrostatic pressure and impurity on entropy and heat capacity of double quantum wire
PP-072	Mr.	INDRAJEET MAURYA	RED LIGHT EMITTING Eu ³⁺ INDUCED TUNGSTATE PHOSPHORS FOR SOLID STATE LIGHTING APPLICATIONS
PP-073	Ms.	Shivani	Iron-Filled Carbon Nanotubes - Synthesis and Applications: A Review
PP-074	Ms.	Anshu	The Impact of Collisions on an Electrostatic Ion Cyclotron Wave in a Magnetized Dusty Plasma
PP-075	Ms.	SHILPA RANA	Piezoelectric nanogenerator performance modulation via varied PVDF morphology
PP-076	Ms.	RITU	ALFVEN ION CYCLOTRON WAVES IN RECONNECTION REGION OF SOLAR WIND
PP-077	Ms.	Km komal	Synergistic Photocatalytic Enhancement: SnO ₂ -2D Nanocomposites for Sustainable Pollutant Degradation
PP-078	Ms.	Dishu Dawra	Influence of dense plasma on the atomic structure of Be-like Si ¹⁰⁺ ion
PP-079	Mr.	Naman	MAGNETIC FIELD EFFECT ON THE THIRD HARMONIC GENERATION IN CYLINDER CONE SHAPED QUANTUM DOT
PP-080	Mr.	Sudhabrata Majumder	A Robust Framework for Spectral Imaging using Compressive Sensing based Single Pixel Camera
PP-081	Mr.	Wesam Al Agha	INVESTIGATION OF STEEL FIBRE REINFORCED CONCRETE ELEMENTS UNDER ELEVATED TEMPERATURE

PP-082	Mr.	SOURAV MEENA	Impact of Calcination Temperature on Structural Properties of NZSP Solid Electrolyte for Na-ion Batteries
PP-083	Dr.	Manoj Malik	Influence of spin orbit interaction on energy dispersion for quantum wire
PP-084	Dr.	Sheetal Antil	Influence of pressure on optical properties for quantum dot
PP-085	Mr.	Ramesh Kumar	For NO ₂ Gas sensing, Synthesis and characterization of MoS ₂ thin films
PP-086	Mr.	Anubhavendra Arya	Synthesis of Lithium Titanate (LTO) via Solid-State Method for Rechargeable Battery Applications
PP-087	Ms.	Shrabya Shukla	Hexagonal lattice photonics crystal fiber for infrared applications.
PP-088	Mr.	Sunil Kumar	Hydrothermally Synthesized VS ₂ Nanoplates for efficient ethanol gas sensing at Room Temperature
PP-089	Ms.	Archana Krishnan	Structural and Morphological properties of Solid-state synthesized V ₂ O ₅ for Energy Harvesting
PP-090	Mr.	Hemant Kumar Arora	SnO ₂ Based Hydroelectric Cell for Green Energy Generation by Water Splitting
PP-091	Ms.	SHOBHANGNA SINGH	Structural, photoluminescence and ferroelectric behaviour of Er ³⁺ / Yb ³⁺ co-doped SrBi ₂ Nb ₂ O ₉ ferroelectric ceramic for multifunctional devices
PP-092	Ms.	Drishti Singh Tomer	A Highly Nonlinear Photonic Crystal Fiber with Two Zero Dispersion Wavelengths for Non Linear Applications
PP-093	Mr.	Vikas	TUNABLE LUMINESCENCE AND ENERGY TRANSFER MECHANISM IN Dy ³⁺ /Eu ³⁺ CO-ACTIVATED TELLURITE GLASSES FOR w-LEDs
PP-094	Ms.	Seema	PHOTOLUMINESCENCE STUDIES OF SAMARIUM IONS DOPED SILICATE PHOSPHORS FOR W-LEDs
PP-095	Ms.	Anu	A comparative study of the photoluminescence properties of Dy ³⁺ , Sm ³⁺ and Eu ³⁺ ions doped Li ₂ Ba ₅ W ₃ O ₁₅ phosphors
PP-096	Mr.	Gaurank Yadav	Comparative luminescence studies of phosphors based on tungstate host doped with Dy ³⁺ , Sm ³⁺ and Eu ³⁺ ions
PP-097	Mr.	Ramesh Kumar	Ab-initio study of pressure induced topological phase transition in XMR material YBi
PP-098	Mr.	Aman Kumar	An Approach Towards the Fabrication of Flexible Piezoelectric Composite Film of Ca-Doped ZnO/PVDF for Energy Harvesting Application

PP-099	Dr.	Kamal Kishor	Perfect Metamaterial Absorber for Enhanced Electromagnetic Wave Interaction
PP-100	Ms.	ANSHIKA GOYAL	Environmentally sustainable fabrication of Ag-SnO ₂ nanocomposite and Ag@SnO ₂ decorated g-C ₃ N ₄ composite using hydrothermal method for enhanced photocatalytic dye degradation.
PP-101	Ms.	JYOTI	Ultra-high numerical aperture for dispersion compensation in chalcogenide based Photonic Crystal Fiber
PP-102	Mr.	Rajesh Kumar	A first principles investigation of structural, electronic, and thermoelectric properties of ZnTiN ₂
PP-103	Ms.	Sangeeta	Effect of strain on the thermoelectric properties of Zintl compound KZn ₄ P ₃ : A First-Principles Study
PP-104	Ms.	Manpreet Kaur	Increased contamination of Cr, Zr, K in soil due to the industrial wastes
PP-105	Ms.	Ritika Ranga	OPTICAL TRAPPING OF DIELECTRIC NANOPARTICLE USING SEMI-CONICAL SHAPED NANOANTENNAS
PP-106	Ms.	Naima	Effect of temperature variation on the performance of HIT solar cell
PP-107	Ms.	Dikhsa	Optimization of design of lead-free KSnI ₃ -perovskite solar cells to improve performance using SCAPS-1D and wxAMPS.
PP-108	Ms.	Neha Vashisht	A Comprehensive study of lead-free CsSnI ₃ Perovskite Solar Cells by using SCAPS-1D and wxAMPS
PP-109	Ms.	Alok Yadav	Unveiling the role PVDF and its Copolymer on the output performance of the Piezoelectric nanogenerator
PP-110	Mrs.	Rashmi Meena	Ballistic conductance of a nanowire with Rashba SOI as control parameter
PP-111	Ms.	Jyoti	Beam-driven whistler turbulence in the presence of magnetic islands at magnetic reconnection sites
PP-112	Ms.	Aneesha	Synthesis of WS ₂ Quantum dots and their optical properties
PP-113	Ms.	Aarti	Hydrothermally Synthesized MXene Quantum Dots and their optical properties
PP-114	Mr.	Anupam Yadav	Spectral Studies of Thermally Stable Pr ³⁺ Induced Telluro Zinc Phosphate Glasses for Luminescent Device Applications
PP-115	Ms.	Richa	Theoretical Study of Atomic Structure Parameters of a highly charged ion with the identification of EUV and SXR spectral lines.
PP-116	Mr.	Gitansh Manchanda	Classical Design of 4 L-shaped Metal-Insulator-Metal(MIM) Absorber in Visible Range

PP-117	Mr.	BITTU SINGH	Structural, microstructural, vibrational spectroscopy and studies of MeMoO ₄ (Me= Cu, Ni & Zn) for an anodic material in LIBs
PP-118	Ms.	Deepika Sharma	Development of Highly Responsive UV Light Sensor Using Functional Spiropyran-Based Smart Chromic Materials
PP-119	Mr.	Ashish Sharma	Above threshold ionization spectra of the hydrogen atom in plasma environment
PP-120	Dr.	Maitreyi Jayaseelan	DUAL TONE DRIVING FOR RYDBERG ELECTROMETRY
Day 3 (22 Dec 2023)			
PP-121	Mr.	Ankit Srivastava	Extensive analysis of electro-chemical properties of Lithium Manganese Oxide (LiMn ₂ O ₄) via solid state formulation technique
PP-122	Ms.	Ankita	Green Synthesis of Metal Nanoparticles: A Paradigm Shift in Sustainable Applications
PP-123	Ms.	Neeru	Structural and functional analysis of functional beverage from millet
PP-124	Dr.	ANU RANA	Hall effect-based temperature sensor using air expansion
PP-125	Ms.	Jyoti	Synthesis and investigation of structural, spectroscopy, dielectric and magnetic properties of CNT doped Cobalt ferrite for EMI and High frequency applications.
PP-126	Mr.	Sachin Goyal	Design and Fabrication of Functional PDA/PVA based Smart Low-Temperature Thermochromic Indicator
PP-127	Mr.	Mohan	
PP-128	Ms.	Suman Dahiya	Low temperature modulation of thermodynamic properties of In _x Ga _{1-x} As 2-D quantum Dot™s
PP-129	Ms.	Vishakha Sharma	Highly-compact Hollow Cylindrical Metalens in Mid-Infrared region
PP-130	Ms.	Vertika Siwach	INVESTIGATION ON LUMINESCENT CHARACTERISTICS OF THERMALLY STABLE Sm ³⁺ DOPED LITHIUM BOROSILICATE GLASSES FOR PHOTONIC APPLICATIONS
PP-131	Mr.	SUKHVINDER KUMAR	Rashba spin-orbit interaction effects on optical absorption coefficient and refractive index changes of tuned quantum dot/ring systems under the action of a vertical magnetic field.
PP-132	Mr.	Vinay Kumar Yadav	Optimising MoTe ₂ Morphology: Understanding from Change of Precursors and Growth Time Alterations
PP-133	Ms.	Ankita Dahiya	Investigation of Photocatalytic properties of synthesized CuO nanoparticles

PP-134	Ms.	Meenakashi Patwal	Improvement in the etch profile by light assisted wet etching technique
PP-135	Ms.	Priya	Selective NH ₃ detection of MoS ₂ /MoO ₃ nanocomposites near room temperature
PP-136	Mr.	Himank Sagar	RADIANCE REFINED: TAILORING TERAHERTZ EMISSION WITH LASER-PLASMA PRECISION AND RADIAL PROFICIENCY
PP-137	Dr.	Kailash Chandra	Structural and magnetic properties of frustrated HO ₂ Ti ₂ O ₇ ceramic prepared by Solid state sintering route
PP-138	Ms.	SIMRAN	Synthesis and Characterization of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ Based Solid State Electrolyte for Li-ion Battery.
PP-139	Ms.	SHEETAL KUMARI	Luminescent properties of Dy ³⁺ ions tungstate phosphor for white emitting device applications
PP-140	Ms.	Shristy Malik	Study to investigate the influence of solar cycle on meteorological parameters in India during 1981-2021
PP-141	Mr.	gagan sharma	Enhanced Visible light photoelectrochemical performance of C ₃ N ₄ coupled with SnO ₂ towards photoelectrochemical water splitting
PP-142	Mr.	ANKUSH	TUNABLE EPSILON NEAR ZERO METAMATERIAL BASED ABSORBER IN THE INFRARED REGIME
PP-143	Mr.	Praveen Kumar	Solvent-Dependent Electrochemical Study of Curcuma longa extract
PP-144	Mr.	Videsh Kumar	STUDY OF STRUCTURAL AND OPTICAL PROPERTIES OF Pr ³⁺ ION-DOPED CALCIUM ALUMINOZINCATE PHOSPHOR
PP-145	Mrs.	Megha Narwan	Effect of Er ³⁺ and Er ³⁺ /Yb ³⁺ ions on structural, optical and electrical behaviour of Ba _{0.5} Na _{0.5} TiO ₃ multifunctional ferroelectric ceramic
PP-146	Ms.	Richa	A synthesis work towards the energy harvesting nanogenerator device using KNNLi/PVDF with MWCnt
PP-147	Dr.	Sumandeep Kaur	INVESTIGATION OF UP CONVERSION PROPERTIES OF YTTERBIUM AND ERBIUM CO-DOPED FLUORIDE BASED NANO PHOSPHOR
PP-148	Mr.	Ankit chaturvedi	Structural, Morphological and Dielectric Study of Lithium Iron Phosphate (LFP)
PP-149	Mr.	Eshaan Gupta	SECOND HARMONIC AND THIRD HARMONIC GENERATIONS OF HELICAL SHAPED QUANTUM WIRE: EFFECTS OF ELECTRIC AND MAGNETIC FIELDS
PP-150	Mr.	Anurag Kumar	Engineering a Flexible Photonic Crystal Fiber for Terahertz Frequency Sensing Applications

PP-151	Dr.	Meenashi	Simulation Strategies for Coupling Coefficient in Laterally Coupled Distributed Feedback Laser with Metal Surface Gratings
PP-152	Dr.	Garima Chanana	Exploring the Potential of 2, 1, 3-Benzoxadiazole Derivatives for DSSC Applications: A DFT and TD-DFT study
PP-153	Mr.	Samarthya Diwakar	Colour tuning in thermally stable Sm ³⁺ activated and Sm ³⁺ /Eu ³⁺ co-activated SrBi ₄ Ti ₄ O ₁₅ phosphors for w-LED applications
PP-154	Ms.	Sharda Pandey	PVP functionalized ZnO Nanoparticles utilized in the photocatalytic degradation of Paracetamol under UV light
PP-155	Ms.	Shivani Kumawat	First-Principles Simulations of Optoelectronic Properties of Graphene and MoS ₂ Heterostructures
PP-156	Dr.	Tarun Kumar	Substrate Dependent Study of HfO ₂ Thin Films for Potential Applications
PP-157	Mr.	Rahul Patwa	A detail investigation on Structural and spectroscopy properties of ZnO/Fe ₂ O ₃ nanocomposite using coprecipitation method for photocatalytic application.