

Poster No.	Title/Presenter	Affiliation
DAY 1		
P-1	Architecting the structural and optical properties of few layered Borophene using transition metal ion implantation technique/ Akshidha Singla	Department of Physics, Guru Nanak Dev University, India
P-2	Optical tunability of 80 keV Ag ion implanted ceria & its correlation with X-ray absorption spectroscopy/ Anshu Singh	Department of Physics, Gurukul Kangri Vishwavidyalaya, India
P-3	Influence of swift heavy ion irradiation induced defects on structural, microstructural and electrical behavior of manganite based thin film/ Apexa Maru	Department of Physics, Saurashtra University, Gujarat, India
P-4	Swift heavy ion induced modification at the Si/SiO ₂ interface of MOS devices/ Arshiya Anjum	Department of Studies in Physics, University of Mysore, India
P-5	Swift heavy ion irradiation effects on structural and optical properties of nanostructured SnO ₂ prepared by sol-gel processing/ B. Mohana Rao	Department of Physics, School of Sciences, GITAM Deemed to be University, India
P-6	Swift heavy ion induced alteration of optoelectronics and structural properties of PLD grown oxide thin films/ Bhaumik V. Mistry	Department of Physics, Gujarat University, India
P-7	60 MeV nitrogen ion irradiation induced structural and optoelectronic responses of exfoliated WSe ₂ / Bhupali Deka	Nanoscience and Soft-Matter Laboratory, Tezpur University, India
P-8	Boosting the optical response of reduced graphene oxide through different ion beams/ Chetan Awasthi	Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, India
P-9	Swift heavy ion irradiation induced modifications in pulsed laser deposited monovalent doped manganite thin films/ C.M. Panchasara	Department of Physics, Saurashtra University, India
P-10	A comparison of room temperature and high temperature 80 MeV nitrogen ion irradiation effects on PNP transistor/ Darshan M.	Department of Studies in Physics, University of Mysore, India
P-11	Investigation of post annealing treatment of Co ions implanted MgTiO ₃ thin films/ Deepak Negi	Department of Physics, Malaviya National Institute of Technology Jaipur, India
P-12	A preliminary study of ion beam irradiation effect on thermoluminescence properties of nanocrystalline SrSO ₄ : Dy/ Devanshi Sharma	Department of Physics, Sri Venkateswara College, University of Delhi, India
P-13	Modifying the structural and electronic properties of boron nitride monolayer through point defects: A first principles study/ Dhanjit Talukdar	Optoelectronics and Photonics Laboratory, Department of Physics, Tezpur University, India
P-14	Synthesis and characterizations of TaO _x based resistive random access memory/ Disha Yadav	Department of Physics, University of Petroleum and Energy Studies, India
P-15	Effects of oxygen ion irradiation on CVD-grown graphene film at different fluences/ Gargi Dhimant	Department of Physics, UPES, Dehradun
P-16	Role of swift heavy ion irradiation in tunable resistive nature of LaMnO ₃ /Nd _{0.7} Sr _{0.3} MnO ₃ interfaces/ Himitri Trivedi	Department of Physics, Saurashtra University, India

P-17	Bimetallic implanted TiO ₂ photoanodes for efficient third-generation solar cells/ Iqbal Singh	Department of Physics, Guru Nanak Dev University, India
P-18	Ion-induced transformation of shallow defects into deep-level defects in n-GaN epilayers/ Kamal Singh	Department of Physics, University of Petroleum and Energy Studies, India
P-19	Synthesis of nickel (mono) silicide phase(s) by co-sputtering of Ni and Si on silicon substrate/ Khushboo Shah	Department of Physics, University of Petroleum and Energy Studies, India
P-20	Disorder induced in GaN thin films by 200 MeV silver ions/ Komal Gupta	Department of Physics University of Petroleum and Energy Studies, India
P-21	Swift heavy ion irradiation effects on structural and optical properties of Ge thin films annealed using different methods/ Komal Shekhawat	Department of Physics, Malaviya National Institute of Technology Jaipur, India
P-22	Structural and optical properties of Ag ion irradiated ZnS thin films for optoelectronic applications/ Naveenkumar K R	Department of Physics, University of Petroleum and Energy Studies, India
P-23	Development of Pd/Co/Pd multilayer with perpendicular magnetic anisotropy through thermal annealing process/ Kuldeep Rawat	Department of Physics, University of Petroleum and Energy Studies, India
P-24	Depth-resolved structure of amorphous CoFeB thin films probed by x-ray standing wave GIXRD and XAFS/ M. Singh	Department of Physics, University of Petroleum and Energy Studies, India
P-25	Studied on the various characterization on manganite based thin films: Role of SHI irradiation/ Mayur Parmar	Department of Physics, Saurashtra University, India
P-26	Structural, transport and magnetotransport properties of sol-gel grown La _{0.7} Pb _{0.3} MnO ₃ /LaAlO ₃ thin films irradiated with swift heavy ions/ Mehul Parmar	Department of Physics, Saurashtra University, India
P-27	Probing of the effect of ion beam irradiation on hydrogen absorption property of palladium-graphene oxide (Pd-GO) nanocomposites/ Mitva Choudhary	Department of Physics, University of Petroleum and Energy Studies, India
P-28	Effect of argon ion impact on the defect evolution in cobalt using molecular dynamics simulations of collision cascades/ Nargis	Department of Physics, Jamia Millia Islamia, New Delhi, India
P-29	Current-voltage characteristics of manganite-based p-n interfaces (role of swift heavy ion irradiation)/ Neeta A. Bhammar	Department of Physics, Saurashtra University, India
P-30	Evolution of structural, electrical and optical properties of zinc stannate films with irradiation/ Neha Chauhan	Department of physics, Dr. B.R. Ambedkar NIT Jalandhar, India
P-31	Nanostructured bi-metallic PdAg films for SERS application/ Niladri Mohan Das	Department of Physics, University of Petroleum and Energy Studies, India
P-32	Role of irradiation of 200MeV Ag ⁺¹⁵ swift heavy ions on electrical properties of manganite based n-n Junctions/ Nisarg Raval	Department of Physics, Saurashtra University, India
P-33	The ramifications of incorporating titanium dioxide nanoparticles into the rheological properties of brake fluid/ Pankaj Bishnoi	Department of Physics. University of petroleum and energy studies, India.
P-34	Simulation of defect induced magnetism in WSe ₂ : A combination of SRIM and density functional theory study/ Paras Poswal	Department of Physics, National Institute of Technology Patna, India

P-35	Impact of ion beam incidence angle on the surface morphology of poly (dimethyl siloxane) under low energy ion beam irradiation/ Pawan Kumar	Surface modification and applications laboratory, IIT Ropar, India
P-36	Microwave triggered self-healable coatings for anti-corrosive applications/ Poonam Singh	Department of Chemistry, University of Petroleum and Energy Studies, India
P-37	Structural and luminescence properties of MgO:Li nanocrystals/ Priyanka Bishnoi	Department of Physics, University of Petroleum and Energy Studies, India
P-38	Effects of gamma irradiation on the formation of silicon nano-entities through electrochemical etching and laser ablation techniques/ Kanaka Ravi Kumar	School of Physics, University of Hyderabad, India
P-39	Effect of low sintering temperature on different properties of lead free $KxNa(1-x)NbO_3$ ceramics/ Ravinshu	Material Analysis and Research Lab, Netaji Subhash University of Technology, India
P-40	Investigating the grain size and environmental temperature dependent radiation tolerance of YSZ under low energy ion irradiation/ Rishvana Parveen	Department of Physics, University of Petroleum and Energy Studies, India
P-41	Energetic oxygen ions beam induced modification in physicochemical and dielectric properties of ferroelectric polyvinylidene fluoride (PVDF) polymer thin film/ Santhoshkumar Dani	Department of Physics, Vijayanagara Sri Krishnadevaraya University, India
P-42	Role of Ion Beams in the enhancement of piezoelectric properties in polymer-biowaste composite films/ Satyasadhan Dowarah	Department of Physics, University of Petroleum and Energy Studies, India
P-43	In-situ ultra-small angle x-ray scattering and transport studies of carbon nanofiller structures in polymer nanocomposites during mechanical stress/ Vaishnav. B	Department of Physics, University of Petroleum and Energy Studies, India
P-44	Sputtering study of tungsten carbide films under nuclear energy loss regime/ Shristi Bist	Department of Physics, University of Petroleum and Energy Studies, India
P-45	Synthesis and characterization of TiO_2 – perovskite embedded inside polymer matrix/ Garima	Department of Physics, Netaji Subhas University of Technology, India
P-46	Ion Beam induced Nano-structuring for Improved Magnetic Anisotropy and Thermal Stability in cobalt Film/ Sharanjeet Singh	UGC-DAE Consortium for Scientific Research, Indore, India
P-47	Modifications Induced in the Structural, Optical, and Photocatalytic Properties of $BiVO_4$ by Gamma Irradiations/ Shilpa Chauhan	Department of Physics, University of Petroleum and Energy Studies, India
P-48	Fabrication and characterization of W-based compounds for energy application/ Shilpa	Department of Physics, University of Petroleum and Energy Studies, India
P-49	Ion beam induced modifications in graphene oxide for sensing applications/ Warren Rosario	Department of Physics, University of Petroleum and Energy Studies, India
P-50	Exploring the effect of ion-irradiations on micro-fluidic devices functionality/ Sonam Singh	Department of the chemistry, University of Petroleum and Energy Studies, India
DAY 2		
P-51	Thermoluminescence studies of $CaF_2:Dy$ irradiated with gamma rays and ion beams/ Sayali Sudhir Gadre	Department of Physics & Astrophysics, University of Delhi, India

P-52	Processing of hafnium oxide thin films by 2 MeV Kr ion beam for opto-electrical applications/ Sikta Mandal	School of Electronics Engineering, KIIT - Deemed to be University, Bhubaneswar, India
P-53	Studying the impact of swift heavy ion (SHI) irradiation on exfoliated, nanoscale SnS/ Stuti Tamuli	Nanoscience and Soft-Matter Laboratory, Department of Physics, Tezpur University, India
P-54	Modification of TiO ₂ (110) single crystal surface for higher catalytic activities by N ₂ ⁺ ion bombardment/ Sunaina Singh	Ion Beam Development and Application Section, RIBFG, VECC, Kolkata & HBNI, Mumbai, India
P-55	Radiation persistent properties on nano-crystalline zirconolite ceramic compositions/ Swetha Rachamalla	Department of Nuclear Physics, Andhra University, India
P-56	Ion beam induced silicon ripples for the nanofabrication of silver particles Arrays/ Tarundeep K. Lamba	IPR, Ahmedabad, India & HBNI, Mumbai, India
P-57	Effect of irradiation on structural, electrical and current – voltage characteristics of manganite based thin films/ Urvashi Jambukiya	Department of Physics, Saurashtra University, India
P-58	Temperature-dependent raman spectroscopy and gas sensing in few-layer 2D MoS ₂ triangular domains/ Saurabh Rawat	Functional Nanomaterials Research Laboratory, Department of Physics, Doon University, India
P-59	Swift heavy ion-provoked electronic sputtering in nanoring: A novel methodology to upsurge in number density of Au nanoring/ Shivani Chaudhary	Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, India
P-60	Electrical properties modification of gallium arsenide/ A. R. Yadav	Department of Physics, St. Xavier's College, Mumbai-400 01, India
P-61	Tailoring structural, magnetic, and electronic properties of CoFe ₂ O ₄ thin films using swift heavy ions/ Ambrish Dwivedi	Department of Physics, Maharaja Bhoj Govt. P.G. College Dhar, India
P-62	Structural and electrical properties of high energy ion beam Ag irradiated Bi/Se bilayer/ Anil K Das	St. John's College, Agra, India
P-63	Gold nanostructure formation on polymer substrates by keV atomic and molecular ion beams/ V.M. Studzinski	Alferov University, St.-Petersburg, Russian Federation
P-64	Optoelectronic response of 80 MeV Ni ion irradiated ceria thin films/ Poornima Sengunthar	Department of Physics, Gujarat University, India
P-65	Irradiation-induced modification of polyaniline/graphene oxide nano-composite and application in hydrogen storage devices/ Naushad Ansari	MMH PG College, India
P-66	Effective cost-cutting approach to synthesize SiOC thin films/ Merry Gupta	Inter-University Accelerator Centre, India
P-67	Synthesis and fabrication of memory devices based on semiconductor-perovskites nanocomposites/ Manisha	Department of Physics, Netaji Subhas University of Technology, India
P-68	Ion beam induced surface blister formation and exfoliation in 3C-SiC/ N. Sreelakshmi	Indira Gandhi Centre for Atomic Research, India
P-69	Effect of ion implantation on photocatalytic performance of gC ₃ N ₄ /WS ₂ heterostructure/ Shivani Dangwal	Functional Nanomaterials Research Laboratory, Doon University, India
P-70	A comprehensive analysis: the effects of 100 MeV Ni ⁷⁺ ion irradiation on the structural integrity of MoO ₃ thin films/ Amit Kumar Verma	Sensors and material research lab, University of Lucknow, India
P-71	Ion-irradiation induced structural, electronic, and optical properties modification in a few layered MoS ₂ / Brij Kumar Bareth	Department of Pure & Applied Physics, Guru Ghasidas Vishwavidyalaya (Central

		University), India
P-72	Investigating structural response of zirconia and calcium-stabilized zirconia to high-energy ion beam irradiation/ A. Kumar	Department of Physics, Chandigarh University, India
P-73	Site-specific emulation of neuronal synaptic behaviour in self-organized Au nanoparticle-decorated ion patterned TiO _x surfaces/ Aparajita Mandal	SUNAG Laboratory, Institute of Physics, Bhubaneswar, India
P-74	Electronic excitation induced modifications in the resistive Switching Behavior of BiFeO ₃ based heterostructures/ Ashish Raval	Department of Nanoscience and Advanced Materials, Saurashtra University, India
P-75	Effect of swift heavy ion irradiation on transport properties of LaMnO ₃ /La _{0.7} Ca _{0.3} MnO ₃ interfaces/ Bhargav Rajyaguru	Tata Institute of Fundamental Research, Hyderabad & Department of Physics, Saurashtra University, India
P-76	Dosimetry implications from analysis of thermoluminescence properties in O ⁶⁺ ion beam irradiated K ₂ Ca ₂ (SO ₄) ₃ ·Eu,Cu/ Chirag Malik	Panipat Institute of Engineering Technology, KU, India
P-77	Effect of swift heavy ion irradiation on bimetallic alloy nanoparticles/ Ksh. Devarani Devi	Inter-University Accelerator Centre, New Delhi, India
P-78	Electronic excitation induced modifications in the electrical properties of ZnO-BaTiO ₃ nanocomposite films/ Hetal Kundalia	Department of Nanoscience and Advanced Materials, Saurashtra University, India
P-79	Consequences of 150 MeV Ag ¹¹⁺ swift heavy ion irradiation on magnetodielectric properties of BSFO/CFO/LNO multilayer/ Nisha Thankachen	Department of Physics, Gujarat University & Department of Physics, Indus University, India
P-80	Influence of alloying elements on stacking fault energy in inconel alloy 718: a first-principles study/ Paramita Patra	Variable Energy Cyclotron Centre, Kolkata, India
P-81	Effect of low energy helium ion irradiation on polystyrene – graphene nanocomposites/ Radha Perumal Ramasamy	Department of Physics, CEG campus, Anna University, Chennai, India.
P-82	Studies of GaN thin film implanted with 100 keV Silicon negative ions/ R. L. Dubey	Department of Physics, St. Xavier's College, Mumbai, India
P-83	Electronic Sputtering in thin films and bulk Systems/ Ratnesh K Pandey	Department of Physics, University of Petroleum and Energy Studies, India
P-84	Investigation on the enhanced electrochemical performances of manganese oxide nanorods using nitrogen ion irradiation with low energy/ Satyanarayan Dhal	Centurion University of Technology and Management, India
P-85	RBS and AFM Studies of Ripple Pattern Fabrication on Si and Ge by 100 keV Ar ⁺ Ion Beam: A Comparative Study/ Indra Sulania	Inter University Accelerator Centre, India
P-86	CW-Optically Stimulated Luminescence Studies in NaLi ₂ PO ₄ :Ce ³⁺ Phosphor for Dosimetric Applications in Radiation/Hadron Therapy/ Martina Saran	Inter University Accelerator Centre, India
P-87	Ion-irradiation effect on structural, morphological and electrical transport properties of LCO thin films/ Ramcharan Meena	Material Science Division, Inter University Accelerator Center, India
P-88	Investigation of the Exchange Bias in ion beam sputtered IrMn/NiFe Bilayers using Magnetoresistance	Thin Film Laboratory, Department of Physics, IIT Delhi & IUAC, India

	Technique/ Sanjay Kumar Kedia	
P-89	Navigating the nanoworld: ion beam nano structuring for enhanced materials design and functionality/ Abhijeet Pole	Department of Physics Fergusson College (Autonomous), Pune, India
P-90	Study of nickel oxide thin film as a hole transport layer for solar cell devices/ Atanu Samanta	Department of Physics, Shiv Nadar Institution of Eminence, UP, India
P-91	Investigation of magnetic anisotropic behavior in patterned NiFe nano dots for spintronic applications/ Ekta Goyat	Thin Film Laboratory, Department of Physics, IIT Delhi, India
P-92	Tuning of optical properties via annealing of bismuth ferrite (BiFeO ₃) thin films/ Harish Kumar Meena	Department of Physics, S.S Jain Subodh P.G.(Auto.) College Jaipur, India
P-93	Ion beam irradiated anisotropic nanomaterials as SERS-active substrate for chemical and biological sensing/ Janvi Shirsul	Bio-Inspired Materials Research Laboratory, Savitribai Phule Pune University, Pune, India.
P-94	Optimization of hydrogen adsorption uptake on Zn-BDC metal organic framework/ Khushbu Meena	Department of Physics, University of Rajasthan, India
P-95	Surface nano-structuring of tungsten with one dimensional WO _{3-x} by low-energy, very large flux/fluence He ⁺ in the CPP-IPR CIRCLE-PSI/ Mizanur Rahman	CIRCLE-PSI Laboratory, Centre of Plasma Physics-IPR, India
P-96	Ion beam technologies for enhancing photovoltaic system efficiency/ Monika Verma	Advanced Functional Materials Lab, Dr. S.S. Bhatnagar University Institute of Chemical Engineering & Technology, PU, India
P-97	Investigation of charge exchange processes for understanding positive ion mass spectrometry (PIMS)/ N.J. Pandit	Physics Department, Cotton University, Guwahati, India
P-98	Bandgap engineering of nanostructured TiO ₂ thin films by swift heavy ion irradiation/ Pooja Karma	School of Instrumentation, Devi Ahilya University, Indore, India
P-99	Low energy Ar ⁺ induced nano-structuring of Au/V ₂ O ₅ /Au for SERS detection of rhodamine-6G/ Priya Jasrotia	Department of Nanoscience & Materials, Central University of Jammu, India
P-100	Effect of swift heavy ion beam irradiation on structural and optical properties of ZnO-TiO ₂ nanocomposite powders/ Rais Ahmad Dar	Nanotechnology Research Laboratory, Department of Physics, NIT, Srinagar, India
P-101	Structural, optical, and morphological modification in the Au and Ag ion implanted TiO ₂ thin films/ Rashmi Kajal	Department of Physics, Laser Laboratory, GJU S&T Hisar, India
P-102	Nitrogen-ion-implanted forming-free memristor for neuromorphic applications/ Rupam Mandal	SUNAG Laboratory, Institute of Physics, Bhubaneswar, India
P-103	pH-responsive multimode dynamics of light-powered rod-shaped microswimmers/ Srikanta Debata	Department of Physics, IIT Bhilai, Chhattisgarh, India
P-104	Thermal stability of magnesium based metal organic framework (Mg-MOF) containing BDC linkers/ Suryaji N. Mane	Department of Physics, Fergusson College (Autonomous), Pune, India
P-105	Nanopatterning Si(100) at varying incidence fluence: mass-dependent projectile impact/ Vandana	Department of Physics, Kurukshetra University, India

P-106	Large scale surface cratering on aluminium thin film by low energy ion irradiation/ Zara Aftab	Jamia Millia Islamia, New Delhi, India
P-107	Effect of 50 keV Ag-ion implantation on pulsed laser deposition grown indium-tin-oxide thin film/ Afroz Khan	Department of Physics, Aligarh Muslim University, Aligarh, India
P-108	Transition metal implanted MXenes for highly efficient quantum dot sensitized solar cells/ Aman Mahajan	Department of Physics, Guru Nanak Dev University, Amritsar, India
P-109	Structural ordering and stability in sputtered grown β -tungsten films for spintronic applications/ Ananya Chattaraj	New Chemistry Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India
P-110	Modification in polyaniline thin films on irradiation with 100 MeV Ag ¹⁰⁺ / Anju Dhillon	Department of Applied Sciences, MSIT, New Delhi-110058, India
P-111	Ion beam induced formation of a DMS material: structural and magnetic properties/ Debarati Bhattacharya	Solid State Physics Division, B.A.R.C., Trombay, Mumbai & Homi Bhabha National Institute, Anushaktinagar, Mumbai, India
P-112	Structural, optical and electrical transport properties of metal oxide composites of TiO ₂ , and SnO ₂ Thin films: A mini-review/ Devendra Mohan	Department of Physics, Laser Laboratory, GJU S&T Hisar 125001, Haryana, India
P-113	Swift heavy ion (SHI) and femtosecond laser ablation induced modifications in hafnium oxide matrix and possible correlation of thermal spike and coulomb explosion mechanisms/ Dhanunjaya Munthala	School of Ceramic Engineering, Suranaree University of Technology, Nakhon Ratchasima Thailand
P-114	Beam irradiations on liquid crystal materials/ Jai Prakash	Department of Physics, Aligarh Muslim University, India
P-115	Formation of nickel oxide in nickel ions incorporated calcium phosphate for biocompatible supercapacitors/ Kurinjinathan Panneerselvam	Department of Science and Humanities (Physics), Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, India
P-116	Effect of Ag ion irradiation on the thermoelectric properties of flexible PVDF films/ Manju Bala	Department of Physics, Hindu College, University of Delhi, India
P-117	Study of structural and magnetic properties in HOPG as a consequence of 1.2 MeV proton ion beam irradiation/ Neeraj Shukla	Department of Physics, National Institute of Technology Patna, India
P-118	Elevating electrochemical immunosensing of helicobacter pylori through ion irradiation-induced modification of nanomaterials/ Nidhi Chauhan	Department of health sciences, University of Petroleum and Energy Studies, India
P-119	Effects of electrical conduction and radiation on pure and doped polymer thin film/ Pankaj Kumar Mishra	Department of Applied Physics, Amity School of Engineering and Technology, Amity University MP, India
P-120	Correlation of phase transformation with optical properties of Swift heavy ion irradiated (K, Na) NbO ₃ thin films/ Radhe Shyam	Department of Physics, MNIT Jaipur & School of Physical Sciences, NISER Bhubaneswar, HBNI, Jatni, Odisha, India
P-121	Negative thermal quenching induced strong visible luminescence from nitrogen implanted ZnO/ Saptarshi Pal	Department of Physics, Institute of Applied Sciences and Humanities, GLA University, Uttar Pradesh, India

P-122	Fe-Al-Si magnetic nanocomposites by high energy ball milling/ Snehal Jani	Department of Applied Physics, Amity School of Pure and Applied Sciences, Amity University, Madhya Pradesh, India
P-123	Ion induced defects annealing and threshold studies in silicon carbide/s S. Kumar	Ruđer Bošković Institute, Bijenička cesta 54, 10000 Zagreb, Croatia
P-124	Strain-induced metallic to semi-conducting transition in Bi ₂ Te ₃ thin films via Fe-ion Implantation/ Jyoti Yadav	Department of Physics, Malaviya National Institute of Technology & IUAC, India
P-125	Impurity-free perpendicular mode ripple developed on GaSb by 500 eV Kr ⁺ ion irradiation for TO mode enhancement/ Joy Mukherjee	SUNAG Laboratory, Institute of Physics, Sachivalaya Marg, India
P-126	Study of 100 keV Silicon negative ions implantation in GaP/ Manish S Pandey	St. Xavier's College, Mumbai, India
P-127	Pyrolysis of medical waste pretreated with UV radiation for hydrocarbon fuel production: A greener approach towards waste to energy/ Amit Kumar Sharma	Centre for Alternative Energy Research (CAER), R & D , University of Petroleum and Energy Studies, Dehradun, Uttarakhand-24800