

International Conference on Materials Research and Technology (ICMRT - 2017)

Technical Programme

Monday, July 10, 2017

08:30 - 10:00 Registration & Welcome at Aggarwal College Ballabgarh

INAUGURAL FUNCTION: 10:00 – 12:00 (Venue : Auditorium)

Chief Guest	Prof. Victor Gambhir , Vice-Chancellor, MMU, Mullana, Ambala (Haryana)
Chairperson	Sh. Devender Kumar Gupta , President, Governing Body, Aggarwal College Ballabgarh
Key note address 11:30-12:00	Prof. Ri-ichi Murakami , NTU of S&T, Taipei, Taiwan
12:00-13:00	Lunch

FIRST SESSION : 13:00 – 15:30 (Venue : Auditorium)

Chairman	Prof. A.C. Sharma , GGSIPU, New Delhi & Dr. S.K. Chakarvarti , Ex-NIT, Kurukshetra	
IT-Invited Talk, O-Oral Presentation, P-Poster Presentation		
Time & ID	Title	Author(s)
13:00-13:30 (IT-1)	Ultrafast Spectroscopy of Solar Energy Conversion Nano-Materials	Akihiro Furube et al. Tokushima University, Japan
13:30-14:00 (IT-2)	Tunable Diode Laser Spectroscopy Based Sensors for Fire Safety Management	Lalita Gupta et al. DRDO, Delhi
14:00-14:30 (IT-3)	The Application of Phase Diagram in Materials Science and Engineering	Yee Wen Yen et al. NTU of S&T, Taipei, Taiwan
14:30- 15:00 (IT-4)	Designing Alkaline-Earth Metal Based Coordination Frameworks with Low Dielectric Constant	Arunachalam Ramanan IIT Delhi
15:00-15:30 (IT-5)	Structural and Piezoelectric Studies Sr ²⁺ Modified PMS-PZT :A Potential Material for high Power Piezoelectric Device Application	Ajay Kumar Himanshu AMLVECC, Kolkatta
14:30-15:30	Parallel Session: Audio Visual Room (Room No. 31, First Floor) Chairman: M.D. Shirsat , Dr. B.A.M. University, Aurangabad Oral (O-1 to O-6) and Poster Presentation (P-1 to P-22)	
15:30-16:00	Tea Break	

SECOND SESSION :16:00 – 19:00 (Venue : Auditorium)

Chairman	Dr. Manoj Umesh Sharma , DRDO, Delhi & Dr. Sundeep Chopra , IUAC, Delhi	
Time & ID	Title	Author(s)
16:00-16:30 (IT-6)	Three-Dimensional Jute Fabrics Reinforced Poly(lactic Acid) Composites	Jieng-Chiang Chen et al. Former Associate Dean Academic Department of Product Design Vanung University, Chungli, Taoyuan, Taiwan
16:30-17:00 (IT-7)	Development of Hybrid Transparent Electrodes for Flexible Solar Cells	Keh-Moh Lin et al. NTU of S & T, Taipei, Taiwan
17:00-17:30 (IT-8)	Track-Etched Membranes as Scaffolds: Versatile Tools for Nano-/Micro Synthesis of Structures and Devices	S.K. Chakarvarti Ex-NIT, Kurukshetra
17:30-18:00 (IT-9)	Role of ZnO Piezoelectric Material in the Development of MEMS Acoustic Sensor for High Sound Pressure Measurement	Mahanth Prasad CSIR, Pilani (Rajasthan)
18:00-19:00	Oral (O-7 to O-12) and Poster Presentation (P-23 to P-44)	
19:00- 21:00	Conference Dinner	



Tuesday, July 11, 2017

THIRD SESSION : 9:00 – 11:00 (Venue : Auditorium)

Chairman	Dr. D.K. Tuli, DBT-IOC Centre for Advanced Bio-Energy Research, Faridabad & Dr. Krishan Kant, Principal, Aggarwal College Ballabgarh	
Time & ID	Title	Author(s)
9:00-9:30 (IT-10)	Field Emission Properties of Nanostructures and Nanocomposites	Pankaj M. Koinkar Tokushima Univ. Japan
9:30-10:00 (IT-11)	Nanocrystalline TLD/OSLD Phosphors	P. D. Sahare University of Delhi
10:00-10:30 (IT-12)	Luminescent Organic Laser Dyes Solutions for their Application as an Optical Sensor	Amitanshu Pattanaik (DTRL) DRDO Delhi
10:30-11:00	Oral (O-13 to O-15) and Poster Presentation (P-45 to P-66)	
11:00-11:30	Tea Break	

FOURTH SESSION : 11:30 – 13:30 (Venue : Auditorium)

Chairman	Dr. Fouran Singh, IUAC, New Delhi & Dr. R.P. Chauhan, NIT, Kurukshetra	
Time & ID	Title	Author(s)
11:30-12:00 (IT-13)	Heavy Metal Ion Sensors based on Chelating Ligand Modified Conducting Polymer/Carbon Nanotubes Nanocomposite	M.D. Shirsat Dr. B.A.M. University, Aurangabad
12:00-12:30 (IT-14)	Significance of Catalyst Characterization in Refinery Processes	C. U. Aniz UOP, a Honeywell Co. Gurgaon
12:30-13:00 (IT-15)	Effect of Gamma Irradiation on Zinc Oxide Thin Film by Chemical Route Method for Supercapacitor Application	R.G. Sonkawade Shivaji University, Kolhapur
13:00-13:30	Oral (O-16 to O-18) and Poster Presentation (P-67 to P-88)	
13:30 – 14:30	LUNCH	

FIFTH SESSION : 14:30 – 16:30 (Venue : Auditorium)

Chairman	Dr. Debanik Roy, BRNS, DAE, BARC, Mumbai & Prof. R.G. Sonkawade, Shivaji University, Kolhapur	
Time & ID	Title	Author(s)
14:30-15:00 (IT-16)	Radiation Induced Modifications in One and Two Dimensional Nanostructures	R.P. Chauhan NIT, Kurukshetra
15:00-15:30 (IT-17)	Convergence of Top-Down and Bottom-Up Methodology in Nanosynthesis	Samik Kumar Hait Sr. Manager IOCL, Faridabad
15:30-16:00 (IT-18)	Nano Scale Hybrid Materials for Energy Storage Application	Ashok Sharma DCRUST, Murthal
16:00-16:40	Oral (O-19-to O-22) and Poster Presentation (P-89 onwards)	

VALEDICTORY FUNCTION: 16:40 – 18:00 (Venue : Auditorium)

Chief Guest & Valedictory Address	Prof. Dinesh Kumar, Vice-Chancellor, YMCAUS&T, Faridabad
Chairperson	Sh. Devender Kumar Gupta, President, Governing Body, Aggarwal College Ballabgarh

Principal-cum-Convener, ICMRT-2017

List of Oral Presentation and Poster Presentation

Oral Presentations

S. No	Title of Presentation	Author
O-01	Elemental Analyses of Petroleum and its Related Products by ICPMS	Dr. Ram Janam Singh et al.
O-02	Development of Novel Acrylate Based Polymeric Materials for Lubricant Additive Applications	Raj K. Singh
O-03	Charactrization of Self Assembled 3-D Photonic Crystals	A.S. Rawat
O-04	Succinonitrile: an Additive for Phthaloylchitosan Based Gel Polymer Electrolyte for the Application in Dye Sensitized Solar Cells	Amar Ratan et al.
O-05	The Study of Stress Concentration of Self-reinforced PET Composites by Digital Image Correlation Method	Chang-Mou Wu et al.
O-06	Design and Analysis of Different Circuits Using DCVSL & STATIC CMOS Technique	Mohit Kumar Antil et al.
O-07	Development of Thermally Stable Coordinated Polymer Using Polyurethane as a Ligand and Transition Metal ION	Laxmi et al.
O-08	High Dose Gamma Irradiation Influence on Copper Nanowires	Pallavi Rana et al.
O-09	Effect of Ni Substitution in on Soft Magnetic Properties of $Mg_{0.7-x}Ni_{0.3}Zn_xFe_2O_4$ Ferrites Grown by Sol-Gel Auto-Combustion Technique	Arindam Ghosh et al.
O-10	Effect of AR^{+6} ION Implantation on the Properties of CU Nanowires	Rashi Gupta et al.
O-11	Design and Analysis of Power Efficient Static Random Access Memory	Sumedha Singh et al.
O-12	Effect of Deposition Potential on the Properties ff CDSE Nanowires	Chetna Narula et al.
O-13	Synthesis and Characterization of Cobalt Oxide(Co_3O_4) Thin Film and Their Application for Supercapacitor	P.S. Shinde et al.
O-14	Effect of Europium on the Thermoluminescence Characteristics of γ Irradiated LiF Crystals	Pooja Seth et al.
O-15	Simulation of NMOS Transistor using Silvaco TCAD at 65nm Technology	Prashant Kumar et al.
O-16	Simulating Effects from Nuclear Probe to Study Electrical and Optical Properties of Neodymium Doped Barium Zinc Titanate Ceramic	Anil Kumar et al.
O-17	Size Dependent Thermoluminescence Properties of Eu^{3+} Doped $NaLi_2PO_4$ TLD Phosphor	Vishnu Chauhan et al.
O-18	Ultra Fast and Effective Treatment of Dyes from Water with the Synergistic Effect of NI Doped ZNO Nanoparticles and Ultrasonication	Priya Saharan et al.
O-19	Dipyromethanes with Hydrazone Substituents: NLO and Anti-Tubercular Study	R.N. Singh et al.
O-20	Inhibitive Action of 2-Aminobenzene Arsonic Acid towards the Corrosion of 304 Stainless Steel in 1.0m Sulphuric Acid Solution	Dr. Abhay Singh et al.
O-21	Synthesis, Electrochemical and Transport Studies of Ion-Exchange Composite Membrane for Desalination of Saline Water	Mohammad Mujahid Ali Khan
O-22	Effect of Dopant to Improve Optical Transmittance of ZnO film	Sonia Bansal et al.

Poster Presentations

S. No	Title of Presentation	Author
P-01	Optimization of Optoelectronic Properties of ITO Thin by Using Taguchi Method	Keh-Moh Lin et al.
P-02	Effect of Sputtering Parameters on Optoelectronic Properties of IZO Transparent Conducting Oxide Thin Films	Keh-Moh Lin et al.
P-03	Optical and Electrical Properties of Ferrous Oxalate Doped Polyaniline	Sangeeta Prasher et al.
P-04	Compositional Dependence of Structural, Optical and Electrical Properties of Polyaniline-Nickel Chloride Composites	Sangeeta Prasher et al.
P-05	Shape Control Study of Nanomaterials by using Bioactive Polymer	Vijender Singh



S. No	Title of Presentation	Author
P-06	Fabrication of Temperature-Responsive Cell Culture Surface Using Poly(N-isopropylacrylamide)-Polyaniline Nanocomposite Fibers	Yashpal Sharma et al.
P-07	Analysis on Chemical Composition of Medicinal Plant Products of Aravali Hills of Haryana used for the Treatment of Kidney Stone and Urinary Tract Infections	Dr. Puran Prabha
P-08	Study on Plants Extract Mediated Synthesis of Silver Nanoparticles for Antimicrobial Properties	Dr. Pawan Kumar
P-09	A Systematic Study of Dust Driven Far Infrared Emission Region Around White Dwarfs	Bhanu Bhakta Sapkota et al.
P-10	Chemical Synthesis and Characterization of Mn_3O_4 Thin Films for Supercapacitor Application	A.A.Shaikh et al.
P-11	X-Ray Diffraction Study of 4-dimethylaminomethylene-5-methyl-2-p-tolyl-2,4-dihydro-pyrazol-3-one	Priyanka Kanwal et al.
P-12	Development of Heterogeneous Nanocatalyst System in Transesterification Process for Production of Biodiesel	Kumar Gaurav
P-13	Synthesis and Single Crystal X-Ray Diffraction Study of A 1,5-DIMETHYL-4-(2-OXO-1,2-DIPHENYL-ETHYLIDENEAMINO)-2-PHENYL-1,2-DIHYDRO-PYRAZOL-3-ONE	Naresh Sharma et al.
P-14	Fly Ash Utilization in Construction Industries as Radon Shielding Materials	Amit Kumar et al.
P-15	Interconnection of Charge Neutrality Level with Electronic Structure and its Modification upon Electronic Excitations	Arkaprava Das et al.
P-16	Effect of Deposition Potential and Post-Synthesis Heat Treatment on Structural Properties of Copper Selenide Nano/ Micro Wires	Harmanmeet Kaur et al.
P-17	Characterization of Electrochemically Deposited CdTe Nano/ Micro Wires	Jaskiran Kaur et al.
P-18	Structural and Optical Characterization of Copper Doped Zinc Oxide Nanoparticles	Johny Dhull et al.
P-19	Quantifying the Percentage Blend Level of Biofuels in Blended Fossil Fuel and their Behavior on Material Corrosion: A Quality Control Viewpoint	P. K. Mondal et al.
P-20	Preparation of II-VI Group Semiconductor Nanowire Arrays by Electrochemical Deposition in ION Track Etched Templates	Lakhwant Singh et al.
P-21	The Study of Pin Hole Tensile Properties of Self-Reinforced PET Composites	Chang-Mou Wu et al.
P-22	Mesoporous Silica Mediated Synthesis of Iron Oxide Nanoparticles	Meenakshi Dutt et al.
P-23	Synthesis of ZnO/CdS Core-Shell Heterostructure	Monika Kumari et al.
P-24	Template Synthesis and Characterization of Tetraaza Macrocyclic Ligand with their Nickel Metal Complexes.	Nidhi Gupta
P-25	Local-Field Corrections due to Dynamical Correlations in a Two-Dimensional Electron Gas at Finite Temperature	Nisha et al.
P-26	X-Ray Diffraction Study of 2-phenyl pyrazolo[4,3-c] Coumarin	Pankaj Bandhoria
P-27	Micro/ Nano Spheres of Hydroxyapatite for the Applications of Hard Tissue Engineering	Pawan Kumar et al.
P-28	Crystal Structure of 3-ethoxycarbonyl-2-methyl-4-(2'-nitrophenyl)-1-phenyl-1,4-dihydropyridine	Rakesh Sharma
P-29	Effect of PVA, MEA, and PEG Surfactants on the Size of ZnS Nano Crystals	Saket Kumar
P-30	Study of the Electrodeposited Cadmium Telluride (CdTe) Thin Films	Saloni Goyal et al.
P-31	Structural and Optical Characterization of Zinc Oxide Nanoparticle Synthesized using Hydrothermal Technique	Subek Singh et al.
P-32	Structural and Optical Characterization of TiO_2 Nanoparticles	Sumit Kumar Nain et al.
P-33	Investigation of ZnO Thin Film Synthesized using Spin Coating Method	Vaishali Goyal et al.
P-34	Study of Structural and Optical Properties of SHI Induced Modified Oxide Based Nanocomposite Thin Films	Vikas Kumar et al.
P-35	Studies of Interactions Between Binary Mixtures of N-(1-Methylethyl)-2-propanamine with Acetic Acid Methyl Ester at 298.15 K	Partibha et al.



S. No	Title of Presentation	Author
P-36	Radon Mass Exhalation Rate of Soil and Water in Different Region of Kolhapur District	P.M.Raste et al.
P-37	Substrate Dependent Structural, Optical and Electrical Properties of CdSe Thin Films	Ritika Choudhary et al.
P-38	γ - Rays Exposure Effect on Selenium Nanowires	Suresh Panchal et al.
P-39	W- Doped VO ₂ Synthesis via Simple Hydrothermal Method for Energy Conservation in Smart Windows	Meenu et al.
P-40	La Doped ZnO Nanoparticles Based Dye-Sensitized Solar Cells	Sahil Goel et al.
P-41	Synthesis and Characterization of Some Bivalent Metal Complexes	Krishan Kant et al.
P-42	Role of Temperature on Static Correlational Properties of a Homogeneous Three Dimensional Electron Gas	Krishan Kumar et al.
P-43	Rapid and Green Approach for Synthesis of Metal Nanoparticles	Anil Yadav et al.
P-44	Microwave Synthesis of Ggum-cl-poly(AA-ipn-ANI) Conducting Hydrogels for Environmental and Antibacterial Applications	Reena Sharma et al.
P-45	An Investigation of Effects of Fertilizers on Soil for Alpha Radioactivity in Colocasia Plants	Raj Kumari et al.
P-46	Seasonal Monitoring of Indoor Radon and Thoron Concentration in Multi-storied Buildings Situated at Faridabad, Haryana, India	Nitin Gupta et al.
P-47	Assessment of Γ -Ray Shielding Parameters of Standard Concrete and Iron	Kulwinder Singh Mann et al.
P-48	Supercapacitor: a Review on Synthesization & Fabrication Techniques	Monika Yadav et al.
P-49	Zinc Oxide as an Efficient Phosphor for White Light Emitting Diode	Amarpreet Singh et al.
P-50	Combination of two Stars in Chemistry Enclave	Vanita Kumari Sapra
P-51	Comparative Thermoluminescence Studies On Highly Sensitive Micro- & Nanocrystalline K ₃ Na(SO ₄) ₂ :Eu ³⁺ (0.1%) Phosphor	Martina Saran et al.
P-52	Analysis of Thermoelastic Properties of Cuprous Halides, Silver Halides and Thallous Halides Crystals	Dr. Anil Kumar ojha
P-53	Synthesis, Characterization and Application of Poly (aniline- thiophene)/Carbon Nanotube Composites	Kamal Kant Singh et al.
P-54	Role of Schiff's Base in Synthesis of Medicinally Important Complexes	Diksha Singh et al.
P-55	Role of Schiff's Base on Synthesis of Bivalent Complex	Yachna et al.
P-56	A Comparative (DFT and Experimental) Study of Malonic and Succinic acid Hydrazide Derivatives: A Good Synthon for heterocyclic Synthesis	Poonam Rawat et al.
P-57	Indigenous Filament: A World of 3D Imagination	Beena Sethi et al.
P-58	Effective Raman and Universal Spectroscopy in India	R P Joshi
P-59	Structural, Magnetic and Electrical Transport Properties of Nanocrystalline SrCo _{0.5} Mn _{0.5} O _{3-δ}	Amit kumar et al.
P-60	Semiconductor to Metallic Behaviour of Polypyrrole Thin Films under High Energy Excitation	Subhash Chandra et al.
P-61	Structure-Activity-Relationship and Crystallographic Analysis of 9-HYDROXY-2-(2-HYDROXYPROPAN-2-YL)-2,3-DIHYDRO-7H-FURO[3,2-G]BENZOPYRAN-7-ONE	Arjun Singh et al.
P-62	Cobalt-Rhodium Layered Hydrotalcite: Preparation and its Applications for the Hydroformylation of Alkenes	Dhanjay Sharma et al.
P-63	A Study of Materials in the Far Infrared Sky at Latitude -53°	A.K. Gautam et al.
P-64	Effect of ION-Beam Irradiation on Graphene Oxide Film	Chetna Tyagi et al.
P-65	Synthesis of Magnetite Nanoparticles Using Co-Precipitation Method	Nisha Rani et al.
P-66	Synthesis and Characterization of 4-[(1-HYDROXY,2-METHOXYBENZYLIDENE)]-4AMINO Antipyrine Schiff Base for Removal of Heavy Metal ION from Industrial Waste Water	Preeti Sharma et al.
P-67	Intrinsic Polarization of K ₂ ZnCl ₄ Single Crystal Grown by Czochralski Technique for Ferroelectric Application	Sonu Kumar et al.



S. No	Title of Presentation	Author
P-68	Synthesis And Characterization Of N-(2-HYDROXYBENZYLIDENE)-2-AMINO Pyridine Schiff Base for Remediation of Heavy Metal ION From Industrial Effluents	Swati Bhargava et al.
P-69	Measurements of Radon Exhalation Rate and Radiation Doses in Building Construction Materials	Mamta Gupta et al.
P-70	Magnetic Fibrous Nanosilica Supported Ionic Liquid (Fe ₃ O ₄ @SiO ₂ @KCC-IL): An Efficient and Recyclable Catalyst for Ring Opening of Epoxide	Charu Garkoti et al.
P-71	Catalytic Conversion of Biomass Derived 2-pyrone into Hydrocarbon Fuels and Chemicals	Md. Imteyaz Alam et al.
P-72	Size and Surrounding Medium Effect on Plasmonic Properties Core-Shell Nanospheres	Pradeep Bhatia et al.
P-73	Innovative Practices in Material use in Auto Mobile Sector (A Giant Step towards Sustainable Development)	Sambhavi Shukla
P-74	Influence Of Chromium (II) Doping On Structural, Optical, Thermal And Mechanical Properties Of L-Alanine Strontium Chloride Trihydrate Single Crystal: A Promising NLO material	Shish Pal Rathee et al.
P-75	Pt/Graphene electrode in Direct Methanol Fuel Cell (DMFC)	Suman Rani et al.
P-76	Roll of Nanostructured Photo Catalyst in Cementitious Matrix for Clean Building	V. L. Vishwakarma et al.
P-77	Fabrication and Characterization of Doped ZnS nanoparticles	N. V. Desai et al.
P-78	Current and Future Prospects of High Temperature Superconductors	Anita Sharma et al.
P-79	Optical Feedback Effect on Static Characteristics of Semiconductor Laser	Anil et al.
P-80	Steam Assisted Stabilization of Hierarchical Mesoporous SAPO Assembled in Presence of Ammonium Hydroxide	Arvind Kumar Singh et al.
P-81	Modeling and Investigation on the Effect of Process Parameters on Junction Depth and Doping Profile of Crystalline Silicon Semiconductor Material for Nano Scale Applications	Bhoop Singh et al.
P-82	Study of Terrestrial Outdoor Gamma Dose Rate Levels and Assessment of Average Annual Effective Dose from Indoor Radon Measurements	Komal Badhan et al.
P-83	Aluminium oxide supported on SBA-15 Molecular Sieves as catalysts for Epoxide Ring Opening	Rekha Yadav et al.
P-84	Functionalized Microporouszeolite Type Silicoaluminophosphates: Novel Catalysts for CO ₂ and Biomass Valorization	Maqsood Ahmed et al.
P-85	Introduction to Materials in Chemistry: A Review	Meena Rani
P-86	Density Functional Study for Electronic Properties of Zinc Blende GaN and AlN	S.K. Arora et al.
P-87	IN-SITU CO Adsorption and Fischer Tropsch Synthesis Studies over Hierarchical Mesoporous CO-ZSM-5 using Diffused Reflectance FTIR (DRIFT)	Shashank Bahri et al.
P-88	Photocatalytic Removal of Congo Red from Aqueous Solution by using Bioglass (62%SiO ₂ -32%CAO-6%P ₂ O ₅)	VirenderYadav et al.
P-89	Materials for Energy and Environment	A.D. Mittal et al.
P-90	Analysis of Secondary Interactions and Structure Activity Relationship of 1H-BENZIMIDAZOLE-2-THIONE.	Bandhan Sharma et al.
P-91	Study of CZTS Solar Cell for Good Efficiency using SCAPS-1D	Nisha Devi et al.
P-92	Thermoluminescence Properties of Ce Doped CaSiO ₃ PEROVSKITE Material	Mohit P. Mamgain et al.
P-93	Study of Physical Properties of Materials in the Far-Infrared Sky at -2 ⁰ Galactic Lattitude	Ajay Kumar Jha et al.
P-94	Nanoporous Inorganic-Organic Hybrid Material with Structural and Electro-Optical Properties of [HgCl ₄] ²⁻ [R] ²⁺	Dinesh Jasrotia et al.
P-95	Manufacturing and Properties of Cotton and Jute Fabric Reinforced PLA Composites	Jieng-Chiang Chen
P-96	Ultra Fast and Effective Treatment of Dyes From Water with the Synergistic Effect of Sn Doped MnO ₂ CNT Nanoparticles and Adsorption	Vinit Kumar et al.
P-97	Temperature Dependent Atomic Transport Properties of Liquid Indium	A. B. Patel
P-98	Study of Supramolecular interactions of Receptor composed with electron denser groups with Dy(III) metal ion	Brij Mohan et al.

S. No	Title of Presentation	Author
P-99	Non-Classical effects of light in nine wave mixing process	Jawahar Lal
P-100	Microwave and Conventional Synthesis, Structural Investigation and Pharmacological Activity of Schiff's Base Ligands and Their Metal Complexes	Gajendra Singh
P-101	Utilization of Delhi's Organic Waste for Environmental Remediation	Manoj Kumar
P-102	Preparation of Biocompatible Palladium-Noscapine Nanoparticles	Rupesh Kumar et al.
P-103	Photoluminescence Properties of Nanomaterials and its Applications	Tanuj Vashistha et al.
P-104	Greener synthesis of core-shell CdSe-ZnSe nanoparticles using oleic acid as capping agent	Umesh kumar
P-105	Investigation on Adsorption of Carbon Dioxide by Modified Clays	Amardeep Singh et al.
P-106	Electronic and Magnetic Properties of Mn and Li Co-Doped ZNO Nano-Crystals	Narendra Jakhar et al.
P-107	Design an Array of Carbon Nano Tubes on Various Substrate and Their Properties	Sudhanshu Singh et al.
P-108	Energy Quantization Effect on Single Electron Transistor	Sonia Bansal
P-109	Design and Analysis of Rectangular Microstrip Patch Antenna Arrays for High Gain Wireless Applications	Garima Singla et al.
P-110	Fabrication and Characterization of Hybrid Transparent Electrodes Based on Silver Nanowire Layer for Flexible Optoelectronic Devices	Keh-Moh Lin et al.
P-111	Development of Amine Functionalised Wrinkled Silica Nanospheres and their Application as Efficient and Recyclable Solid Base Catalyst	Javaid Shabir et al.
P-112	Assessment of Radioactivity of ^{226}Ra , ^{232}Th and ^{40}K in Soil Samples from Some Areas of Punjab, India using Gamma Ray Spectrometer	Rupinderjeet Kaur et al.
P-113	Photo and Electroluminescence of ZnSe:Tb and ZnSe:(Mn,Tb) Phosphors	A.K. Mishra et al.
P-114	A Review on Synthesis of Medicinal Importance of Heterocyclic Compounds	Ravi Dagar
P-115	Comparative Account of Bioaccumulation of Lead and Nickel in Tissues of Fresh Water Fish Cirrhina Mrigala on Chronic Exposure for 90 Days	Shveta Arya