

3.4.4 Number of Ph.D.s awarded per teacher during the year

| Name of the PhD scholar | Name of the Department | Name of the guide/s | Title of the thesis | Year of registration of the scholar | Year of award of PhD |
|-------------------------|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|
| Mehboobun Nahar Milky | Applied Systems Analysis | Amarjeet Nayak | Disrupted Lives: A Qualitative Study of Experiences of Living with Cancer Patients and their Family Caregivers | 2017 | 2023 |
| Sreekanth Bathula | Applied Systems Analysis | Shashank Chaturvedi | Modelling the Dispersion Dynamics of Radiological Dispersal Device | 2014 | 2022 |
| Jegan G | Chemical Sciences | A Suresh | Synthesis and Evaluation of Hexaalkyl Phosphoramides as Extractants for Actinide Extraction and Applications | 2016 | 2022 |
| Meghnath Sen | Chemical Sciences | A. K. Tyagi | Synthesis and Characterization of Inorganic Materials for Potential Applications in Neutron Dosimetry | 2017 | 2023 |
| Vijayalakshmi T | Chemical Sciences | Anupkumar B | Phase Transitions in Disordered SPIN-1 Ferromagnets | 2015 | 2022 |
| Subhayan Chakraborty | Chemical Sciences | Arindam Ghosh | Enhancement of Diamagnetic CEST MRI Contrast Efficiency: An Electronic and NMR Experimental Parameter Optimization Approach | 2015 | 2022 |
| Shalini Pandey | Chemical Sciences | Arindam Ghosh | Enhancement of diaCEST MRI Contrast Efficiency: Hydrogen Bonding and Carbon Dots | 2016 | 2023 |
| Litun Swain | Chemical Sciences | Ashish Jain | Metallic Alloys In LiCl-KCl Eutectic With Applications To Processioning | 2016 | 2023 |
| Aswani Kumar | Chemical Sciences | B. S. Tomar | Formulation of Relativistic Dissipative Hydrodynamics of Spin-1/2 Particles from Kinetic Theory | 2013 | 2022 |
| Deepak Kumar Panda | Chemical Sciences | Bhargava B L | Computational Studies of Deep Eutectic Solvents | 2017 | 2023 |
| Biplab Keshari Pandia | Chemical Sciences | Chidambaram Gunanathan | Manganese Pincer Catalyzed Organic Transformations | 2016 | 2022 |
| Subrakant Jena | Chemical Sciences | Himansu Sekhar Biswal | Ground and Excited-state Dynamics of Sulfur and Selenium Containing Molecules of Biological Significance | 2016 | 2023 |

Data taken from IMS.

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|-------------------------------|-------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Juhi Dutta | Chemical Sciences | Himansu Sekhar Biswal | Noncovalent Interactions with Carbon in Small Molecules and Proteins: Theoretical Predictions and Experimental Challenges | 2017 | 2023 |
| Shubhranshu Shekhar Choudhury | Chemical Sciences | Himansu Sekhar Biswal | On/In Water Catalysis with Cholinium Hydroxide: The Combined Experimental and Computational Studies | 2017 | 2023 |
| Shirley Auxilia L | Chemical Sciences | Hrudananda Jena | Synthesis, Characterization and Leaching Studies of $Ca_{10}(PO_4)_6X_2$, (X= OH, F) and Its Simulated Radionuclide (Re, Cs, Nd, Sr) Substituted Analogues for the Immobilization of Radioactive Waste. | 2015 | 2023 |
| Murukutti Mahima Kumar | Chemical Sciences | Hrudananda Jena | Synthesis and Characterization of Nano-Crystalline Zeolites using Kaolin and Fly Ash for Nuclear Waste Immobilization | 2016 | 2023 |
| Rajat Kumar Tripathy | Chemical Sciences | Jogendra Nath Behera | Metal-Organic Frameworks (MOFs) and Their Derived Materials as Electrocatalyst for Energy Conversion and Storage Application | 2016 | 2022 |
| Malaya Kumar Sahoo | Chemical Sciences | Jogendra Nath Behera | Inorganic-Organic Hybrid Frameworks & Their Derived Materials Towards Clean Energy Applications | 2017 | 2023 |
| Rasitha T P | Chemical Sciences | John Philip | Fabrication of Superhydrophobic Coatings on Cr-Mo Steel, Titanium and Aluminum: Corrosion, Biofouling and Durability Studies | 2016 | 2023 |
| Aditi Arun Dalvi | Chemical Sciences | Kallola Kumar Swain | Studies on the Recovery of Protactinium-231 from Natural Source | 2013 | 2022 |
| Manjari Chakraborty | Chemical Sciences | Moloy Sarkar | Assessing the Behaviour of Some Monocationic, Dicationic and Binary Mixtures of Monocationic Ionic Liquids through Spectroscopic Investigations | 2017 | 2022 |
| Somnath Banerjee | Chemical Sciences | Moloy Sarkar | Photophysical Studies on Some Organic Aggregates and Inorganic-Organic Hybrid Nanomaterials | 2016 | 2023 |
| Naupada Preeyanka | Chemical Sciences | Moloy Sarkar | Synthesis, Characterization, and Photophysical Studies on Some Inorganic, Organic, and Inorganic-Organic Hybrid Nanomaterials | 2017 | 2023 |

Data taken from IMS.

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|----------------------------|-------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Ujjwal Kumar Maity | Chemical Sciences | N Sivaraman | Development of Novel Analytical Methods for Determination of Atom Percent Fission, Spatial Profiling and Plenum Gases | 2017 | 2023 |
| Saikrishna D | Chemical Sciences | N. N. Meeravali | Development of Analytical Methods for the Determination of Beryllium for Application in Environmental Monitoring | 2018 | 2022 |
| Bibhuti Bhusana Palai | Chemical Sciences | Nagendra Kumar Sharma | Syntheses and Biochemical Evaluation of Tropolonylated Peptide and Nucleic Acid Analogues | 2016 | 2022 |
| Nabin Sarkar | Chemical Sciences | Nembenna Sharanappa | Conjugated Bis-Guanidinate (CBG) Stabilized Aluminum Complexes: Synthesis and their Catalytic Applications | 2016 | 2023 |
| Rashmi Joshi | Chemical Sciences | Ningthougam Raghumañi Singh | Synthesis, Characterization and Cancer Therapy Evaluation of Fe ₃ O ₄ and Upconversion Based Nanostructured Materials | 2016 | 2022 |
| Gopal Krushna Das Adhikari | Chemical Sciences | P C Ravikumar | Synthesis of Hexahydrobenzo[c]phenanthridine and b-Carboline-1-one Derivatives via Transition Metal Catalyzed C-H Bond Activation | 2016 | 2022 |
| Smruti Rajan Mohanty | Chemical Sciences | P C Ravikumar | Transition Metal Catalyzed Alkenylation and Alkylation of Iner C-H Bonds | 2016 | 2022 |
| Bedadyuti Vedvyas Pati | Chemical Sciences | P C Ravikumar | Synthesis of Isocoumarins, 1,6-diketones, and 1,3-enynes via Rhodium and Palladium-Catalyzed C-H/C-C Bond Activation | 2016 | 2023 |
| Tanmayee Nanda | Chemical Sciences | P C Ravikumar | Transition-Metal Catalyzed C-C Bond Activation of Cyclopropanones and C-H Bond Activation of Phenoxyacetamides | 2017 | 2023 |
| Shyam Kumar Banjare | Chemical Sciences | P C Ravikumar | Weak Chelation Assisted C-H Bond Activation via Cobaltacycles: A Sustainable Approach towards the Synthesis and Functionalization of N-Heterocycles | 2018 | 2023 |
| Pranav Utpalla | Chemical Sciences | Pradeep Kumar Pujari | Investigation of the Molecular Packing in Polymer Nanocomposites and its Role on the Bulk Physical Properties | 2017 | 2022 |

Data taken from IMS.

M. N. Naik

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|--------------------|-------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Shyamal Kanti Bera | Chemical Sciences | Prasenjit Mal | Metal-free Approaches towards the Construction of Heterocycles | 2017 | 2022 |
| Sudip Sau | Chemical Sciences | Prasenjit Mal | Sustainable Approaches towards C-X (-N, -C, -O) Bond Formation Reactions in Organic Synthesis | 2017 | 2022 |
| Manish Chand | Chemical Sciences | R. Kumar | Studies on Nuclear Activation Techniques for the Elemental Characterization of Environmental and Nuclear Materials | 2018 | 2023 |
| Kasturi Sahu | Chemical Sciences | Sanjib Kar | Synthesis, Characterization, and Applications of Free-base and Metal Complexes of β -Thiocyanatocorroles | 2016 | 2022 |
| Sruti Mondal | Chemical Sciences | Sanjib Kar | Synthesis and Spectroscopic Characterization of Metalloporphyrins and their Applications | 2016 | 2022 |
| Arpita Chatterjee | Chemical Sciences | Saravanan Peruncheralathan | Studies of N-Arylation, Ring-opening and Dearomatization of 5-Aminopyrazoles | 2016 | 2022 |
| Laboni Das | Chemical Sciences | Soumyakanti Adhikari | Radiation Chemical Studies of Ionic Liquids and Deep Eutectic Solvents for their Application in the Synthesis of IV-VI Semiconductor Nanomaterials | 2015 | 2022 |
| Krishna Mishra | Chemical Sciences | Subhadip Ghosh | Studies of Photophysical Processes in Semiconductor Materials and Their Applications | 2017 | 2022 |
| Ranjit Mishra | Chemical Sciences | Sudip Barman | Design of Inorganic-Carbon Composites, Porous Carbons for Sustainable Environmental and Electrochemical Energy Storage/Conversion Applications | 2017 | 2023 |
| Kousiki Ghosh | Chemical Sciences | Susanta Lahiri | Radiochemical Separation Studies on Light and Heavy Ion Induced Reactions on Different Halide Targets | 2016 | 2022 |
| Komal Yadav | Chemical Sciences | Upakarasamy Lourderaj | Computational Studies of the Mechanisms and Dynamics of Chemical Reactions | 2017 | 2022 |
| Bommadeni Arun | Chemical Sciences | V Subramanian | Optimization of Sampling and Measurement Techniques for Tritium and Carbon-14 in the Atmosphere | 2015 | 2022 |
| Priyabrata Biswal | Chemical Sciences | Venkatasubbaiah Krishnan | Activation of Methanol as a C1 Source Using Pd, Ru and Co-compounds to Make New C-C Bonds | 2016 | 2022 |

Data taken from Ims.

MD Naik

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|--------------------------|----------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Prakash Nayak | Chemical Sciences | Venkatasubbaiah Krishnan | Tetra-coordinated Boron Functionalized Phenanthroimidazole and Pyrazole based Fluorophores: Synthesis, Characterization, Photocatalytic and Sensing Applications | 2017 | 2023 |
| Amit Kumar Mishra | Engineering Sciences | Akhilanand Pati Tiwari | Adaptive Filtering for State Estimation of Nuclear Reactor Systems | 2015 | 2023 |
| Anupreethi B | Engineering Sciences | Akhilanand Pati Tiwari | Optimization of In-core Detector Locations for Neutron Flux Mapping in Advanced Heavy Water Reactor | 2016 | 2023 |
| Sumana | Engineering Sciences | Anish Kumar | Total Focusing Method (TFM) Based Phased Array Ultrasonic Techniques for Inspection of Thick and Attenuating Components | 2015 | 2022 |
| Soumya Prakash Nayak | Engineering Sciences | Anubha Sharma | Investigation on Electrically Exploded Conductor Based Inductive Energy Storage System for Pulse Sharpening Applications | 2013 | 2022 |
| Ravindra Kumar Sharma | Engineering Sciences | Archana Sharma | Design and Parametric Studies of Plasma Focus Device & its Pulsed Power Components | 2014 | 2022 |
| Suresh Kumar Telagathoti | Engineering Sciences | Arun Kumar Bhaduri | Thermomechanical Fatigue Evaluation of Type 316 LN Austenitic Stainless Steel Weld joints | 2014 | 2022 |
| Pathan Fayaz Khan | Engineering Sciences | Awadhesh Mani | Design and Development of Heart Rate Variability Biofeedback System for Magnetoencephalography and Electroencephalography Studies | 2015 | 2023 |
| Prashant Sharma | Engineering Sciences | Awadhesh Mani | Design, Modeling and Performance Evaluation of Annular Linear Induction Pumps under Variable Voltage Variable Frequency Supply Conditions | 2016 | 2023 |
| Suman Paik | Engineering Sciences | Bijon Kumar Dutta | Deformation and Fracture Behaviour of FCC-based Single Crystals: Experimental and Numerical Studies | 2014 | 2022 |
| Praveen C | Engineering Sciences | Binod Kumar Choudhary | Influence of Nitrogen on Tensile and Creep Deformation Behaviour of Type 316L Stainless Steel in the Framework of Internal-State-Variable Approach | 2015 | 2022 |
| Prafful Kumar Sinha | Engineering Sciences | Dhruva Kumar Singh | Corrosion and oxidation behavior of a Ti based alloy for use in nuclear industry | 2018 | 2022 |

Data taken from Ims.

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|----------------------------|----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Aruna Devi | Engineering Sciences | Dinesh Srivastava | Microstructural Characterization Of Irradiation Induced Defects In Nuclear Structural Materials | 2013 | 2022 |
| Shikalgar Taslim Dastagir | Engineering Sciences | Jayanta Chattopadhyay | New Methodology and Correlations to Assess Fracture Parameters by Pre-cracked Small Punch Tests - Theory and Experimental Verification | 2015 | 2022 |
| Darpan Krishnakumar Shukla | Engineering Sciences | M Vasudevan | Study of Advanced Methods for Reliability Analysis of Digital I & C Systems | 2016 | 2022 |
| Sagar Chandra | Engineering Sciences | M K Samal | A Multiscale Model for Simulation of Plastic Deformation Behavior of Ni-based Alloys with Explicit Consideration of the Effect of Grain Boundaries | 2017 | 2022 |
| Suresh Sahu | Engineering Sciences | N K Maheshwari | Numerical Study of Heat Transfer to Supercritical Water Flowing Through Vertical Pipe and Rod Bundle | 2014 | 2022 |
| A Saikumaran | Engineering Sciences | R Mythili | Study of Microstructural Evolution in Multi-component CrFeMoVNbx (x=0,1) Alloys and Correlation with Mechanical Properties | 2014 | 2023 |
| Y V Harinath | Engineering Sciences | Rangarajan S | Degradation Studies on Incoloy-800HT and Nickel Coated SS 316L in Static Molten FLiNaK Salt | 2016 | 2023 |
| Suman Saurav | Engineering Sciences | S Sivakumar | Design, Analysis and Development of Irradiation Capsules and Sensors for Material Irradiation in Fast Reactor with Out-of-Pile Validation | 2015 | 2022 |
| Mahesh Kumar Patankar | Engineering Sciences | Sandip Kumar Dhara | Design and Development of High Temperature Radiation Tolerant SiC MEMS Pressure Sensor for Fast Reactor Applications | 2015 | 2023 |
| Mousumi Singha | Engineering Sciences | Sangita Pal | Studies on Recovery of Metal Ions from Low Level Effluent using Complexation-Filtration-Extraction Hybrid Technique | 2013 | 2023 |
| Chinmoy Mallick | Engineering Sciences | Shyam Anurag | Studies of Cavity Modes on Plasma and Its Influence on Ion Beam in a Microwave Ion Source | 2015 | 2022 |
| Soumyadip Mondal | Engineering Sciences | Sreenivas T | Development of Hydrometallurgical Unit Operations for the Recovery of Cobalt, Rare Earths and Uranium from Secondary Resources | 2015 | 2023 |

Data taken from IMS.

MD Nail

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|-------------------------|-----------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Bathe Bhagwan Narayan | Engineering Sciences. | Subhankur Mitra | Analysis of State of the Art Stream Ciphers | 2013 | 2022 |
| Vikas Singhal | Engineering Sciences | Subhasis Chattopadhyay | Development and Implementation of First Level Event Selection Process on Heterogeneous Systems for High Energy Heavy Ion Collision Experiments | 2014 | 2022 |
| Vikas Rathore | Engineering Sciences | Sudhir Kumar Nema | Study of Plasma Activation of Water and its Applications in Antimicrobial and Agricultural Activities | 2018 | 2023 |
| Madhura B | Engineering Sciences | U Kamachi Mudali | Development of Interlayer Coatings on High Density Graphite for Ytria Coating for Pyrochemical Reprocessing Application | 2015 | 2022 |
| Manu Harilal | Engineering Sciences | U Kamachi Mudali | Development of Fly Ash Based High Performance Concrete Blended with Nanoparticles and Inhibitor for Marine Applications | 2016 | 2023 |
| Annesha Das | Engineering Sciences | Vivekanand Kain | A Study on the Effect of Surface Finishing Operations on the Electrochemical Nature of Oxide Film Formed on 304L Ss in Aqueous Environments | 2016 | 2022 |
| Sai Karthik Nouduru | Engineering Sciences | Vivekanand Kain | Nodular Corrosion of Zr-2.5Nb Alloy in Gas Phase - Role of Contaminants and Initial oxide | 2018 | 2023 |
| Srijit Bandyopadhyay | Engineering Sciences | Yogita Parulekar | Reliability based Approach for Evaluating the Response of Structures Considering Soil Structure Interaction | 2015 | 2023 |
| Sumit Kumar Mishra | Life Sciences | Abhijit De | Evaluation of Gold-Nanosphere Based Photothermal Therapy Potential in Mouse Model of Cancer | 2016 | 2022 |
| Desai Sanket Shashikant | Life Sciences | Amit Dutt | Genomic Approaches to Identify Novel Endogenous and Exogenous Genetic Elements Associated with Human Cancer | 2015 | 2022 |
| Joshi Asim Sandeep | Life Sciences | Amit Dutt | Understanding the Complexities of Human Lung Cancer Genome | 2015 | 2022 |
| Prakash Kalwani | Life Sciences | Anand D Ballal | Establishment of CRISPR-based Gene Modulation in Anabaena and Characterization of the Putative CRISPR-associated Protein, Alr1562 | 2016 | 2022 |

Data taken from IMS

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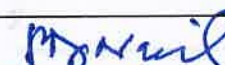
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| Jyotsna Bhatt | Life Sciences | Archana Mukherjee | Mechanistic Studies on Ubiquitin-membrane Interaction & Development of Infection Imaging Probes | 2016 | 2023 |
| Vivek Ananth R P | Life Sciences | Areejit Samal | Compilation, Curation and Exploration of Natural Product Spaces to Enable Traditional Knowledge Based Drug Discovery | 2016 | 2022 |
| Janani R | Life Sciences | Areejit Samal | Exposome and Health: Characterization and Network-based Exploration of Diverse Environmental Chemical Spaces | 2016 | 2022 |
| Reema Devi Rajan Singh | Life Sciences | Ashish Kumar Srivastava | Radiation as a Stressor for Lipid Accumulation in Chlorella Sorokiniana (KMN3) and its Mechanism of Action | 2016 | 2023 |
| Das Lipi Ashok | Life Sciences | Ashok Varma | Proteomics Studies of a Set of Predictive and Prognostic Protein Biomarkers in Head and Neck Squamous Cell Carcinoma | 2015 | 2022 |
| Mudassar Ali Khan | Life Sciences | Ashok Varma | Structural Evaluation of Germline Missense Mutations Causing Hereditary Breast Cancer | 2016 | 2023 |
| Pooja Kamal Melwani | Life Sciences | B N Pandey | Investigations On The Role Of Tunneling Nanotubes In Inter-cellular Communication Between Cancer Cells And Regulation Of Cell Function | 2015 | 2023 |
| Kavitha Premkumar | Life Sciences | Bhavani S Shankar | STUDIES ON TUMOR MICROENVIRONMENT INDUCED CHANGES IN T CELL DIFFERENTIATION | 2016 | 2022 |
| Rashmita Das | Life Sciences | Chandan Goswami | Characterization of TRPV4-mediated Channelopathies and Effect of TRPV4 in Mitochondrial Function and Regulation | 2015 | 2022 |
| Payel Mondal | Life Sciences | Chandrima Das | Transcription Regulation by Transcription Factor 19 (TCF19) in Association with Tumour Suppressor Proteins during Glucose Metabolism | 2015 | 2022 |
| Suparna Saha | Life Sciences | Debashis Mukhopadhyay | Understanding Neuromyelitis, Demyelination and the Role of Aquaporin 4 | 2015 | 2022 |

Data taken from Ims.

M. Naik


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|--------------------------|---------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| Shashank Patole | Life Sciences | Harapriya Mohapatra | Study on Persister Cell Formation in a Clinical Isolate of <i>Klebsiella Pneumoniae</i> | 2014 | 2022 |
| Parui Aasna Lakhikant | Life Sciences | Kakoli Bose | Allosteric Regulation of Serine Protease HtrA2 | 2015 | 2022 |
| Durga Prasad Biswal | Life Sciences | Kishore Chandrasekhar Panigrahi | Light and Phytohormone Interaction in the Development of <i>Physcomitrella patens</i> | 2014 | 2023 |
| Anamika Singh | Life Sciences | Kishore Chandrasekhar Panigrahi | Role of GIGANTEA on the Developmental Regulation of <i>Arabidopsis Thaliana</i> | 2015 | 2023 |
| Usha Yadav | Life Sciences | Nagesh Bhat | Premature Chromosome Condensation Based Rapid Biodosimetry Strategies for High Doses and Non-Uniform Exposures | 2015 | 2022 |
| Rajdeep Das | Life Sciences | Oishee Chakrabarti | MFN2 Mediated Regulation of Mitochondrial Dynamics and MAM Junctions | 2015 | 2022 |
| Debolina Bandyopadhyay | Life Sciences | Padmaja Prasad Mishra | Single Molecule Visualization of Rearrangement of Polypurine Reverse-Hoogsteen Hairpin and fork-DNA during their Modification for Gene Regulation | 2017 | 2023 |
| Anup Kumar Ram | Life Sciences | Pankaj Vidyadhar Alone | Molecular Characterization of Non-AUG Codon Recognition in the Translation Initiation Fidelity Defective Mutant on the Regulation of Differential Protein Expression | 2015 | 2023 |
| Gargi Biswas | Life Sciences | Rahul Banerjee | Experimental and Computational Approaches to Study Protein Stability, Unfolding and Design of PPIases from <i>Leishmania</i> spp | 2016 | 2022 |
| Vinayaki Seikilar Pillai | Life Sciences | Rajani Kant Chittela | Exploring the Relevance of Clinical Variants of Human Translin and Identification of Inhibitors of Translin-DNA Interaction | 2016 | 2023 |
| Gargi Bindal | Life Sciences | Rath Devashish | A Comparative Study of Type I and Type II CRISPR-Cas Systems for their Applications in Modulation of Gene Expression using <i>racR</i> as Model | 2016 | 2023 |

Data taken from IMS.


 प्रो. पी. डी. नाईक / Prof. P. D. Naik
 डीन, होमी भाभा राष्ट्रीय संस्थान
 Dean, Homi Bhabha National Institute
 प्रशिक्षण विद्यालय भवन, अणुशक्तीनगर, मुंबई - 400 094
 Training School Complex, Anushaktinagar, Mumbai - 400 094

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| Shubhant Pandey | Life Sciences | Rudresh Acharya | Mechanistic Insights into the Functioning of a Novel pH Directed Multi-substrate Specific Polysaccharide Lyase (PL) SMLT1473, and Analyses of Conserved 'Substrate-pH of activity' Pairing Among Diverse PL folds | 2014 | 2022 |
| Mojidra Rahul Mahendra | Life Sciences | Rukmini Balkrishna Govekar | Genomic Profiling of Blast Cells from Different Clinical Stages of CML | 2014 | 2022 |
| Rajesh Kumar Chaurasia | Life Sciences | Sandur Santosh Kumar | Retrospective, Cumulative and Rapid Biodosimetry - an Approach by Molecular Cytogenetics | 2015 | 2022 |
| Kathakali Sarkar | Life Sciences | Sangram Bagh | Synthetic Genetic Devices for Higher Order Information Processing in Living Cells | 2015 | 2022 |
| Rajkamal Srivastava | Life Sciences | Sangram Bagh | Synthetic Genetic Reversible Logic Gates in E. Coli and its Application in Logical Information Transfer to Mammalian Cell | 2016 | 2023 |
| Devavrat Tripathi | Life Sciences | Savita Kulkarni | To Study the Effect of Polyphenol on the Invasion and Differentiation of Thyroid Cancer Cell Line | 2016 | 2022 |
| Nair Jyothi Sasidharan | Life Sciences | Shilpee Dutt | Investigating the Signaling Mechanisms in Radioresistant Glioblastoma | 2014 | 2022 |
| Ria Ghosh | Life Sciences | Sitabhra Sinha | Emergent Patterns of Activity in Disordered Biological Systems: Role of Heterogeneities in Organizing the Collective Dynamics of Excitable Cell-Assemblies and Tissues | 2014 | 2022 |
| Sarika Kishan Tilwani | Life Sciences | Sorab Nariman Dalal | The Role of 14-3-3e in Regulating Development of the Epidermis | 2015 | 2022 |
| Tulika Chakraborty | Life Sciences | Udayaditya Sen | Structure of the Transcription Regulator VpsR Implicated in Biofilm Formation and its Regulation by the Second Messenger c-di-GMP in Vibrio Cholerae | 2015 | 2022 |
| Sheikh Burhan Ud Din Farooqee | Life Sciences | Venkatraman Prasanna | Functional Relevance of Protein-Protein Interactions- Case Study with Proteasomal Chaperones | 2013 | 2022 |
| Mukund Sudharsan Mg | Life Sciences | Venkatraman Prasanna | Structure of Gankyrin Interaction Network and their Role in Oncogenesis | 2014 | 2023 |

Data taken from I.M.S.


 प्रो. पी. डी. नाईक / Prof. P. D. Naik
 डीन, होमी भाभा राष्ट्रीय संस्थान
 Dean, Homi Bhabha National Institute
 प्रशिक्षण विद्यालय भवन, अणुशास्त्रीनगर, मुंबई - 400 094
 Training School Complex, Anushaktinagar, Mumbai - 400 094

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| C G Karthick Babu | Mathematical Sciences | Anirban Mukhopadhyay | A Study on Some Arithmetic Properties of the Beatty Sequences | 2015 | 2022 |
| Debasish Karmakar | Mathematical Sciences | Dalawat Chandan Singh | Some Problems in Number Theory | 2015 | 2023 |
| Krishnarjun K | Mathematical Sciences | Kalyan Chakraborty | On the Analytic Properties of Certain Dirichlet Series | 2018 | 2023 |
| Rahul Kaushik | Mathematical Sciences | Manoj Kumar | Commutators and Commutator Subgroups in Finite P-Groups | 2016 | 2022 |
| Nishant | Mathematical Sciences | Manoj Kumar | Extension Theory for Non-degenerate Solutions of Yang-Baxter Equation | 2017 | 2023 |
| Gaurav Sood | Mathematical Sciences | Meena Bhaskar Mahajan | A study of QBF Merge Resolution and MaxSAT Resolution | 2016 | 2023 |
| Priyanshu Chakraborty | Mathematical Sciences | Punita Batra | Irreducible Modules for Loop of Lie Algebras | 2017 | 2022 |
| Atibur Rahaman | Mathematical Sciences | Roy Sutanu | Examples of Braided Quantum Groups in C*-Algebraic Framework | 2016 | 2022 |
| Abhishek Sahu | Mathematical Sciences | Saket Saurabh | Packing and Covering: New Paradigms and Algorithms | 2015 | 2022 |
| Neelam | Mathematical Sciences | Sanoli Gun | Around Non-vanishing, Linear Independence and Transcendence of L Values at Rational and Integer Points | 2018 | 2022 |
| Abhranil Chatterjee | Mathematical Sciences | V. Arvind | Algorithmic Results using Noncommutative Algebraic Complexity | 2016 | 2022 |
| Arindam Biswas | Mathematical Sciences | Venkatesh Raman | Algorithms for NP-hard Problems in the Sublinear-space Regime | 2016 | 2022 |
| Ashwin Jacob | Mathematical Sciences | Venkatesh Raman | New Directions in Parameterized Deletion Problems | 2016 | 2022 |
| Mahammad Mustakim | Physical Sciences | A.V. Anil Kumar | Scattering Amplitudes from Generalized Recursion | 2014 | 2022 |
| Subir Sen | Physical Sciences | Ajaya Kumar Nayak | Magnetic Antiskyrmions in Heusler Shape Memory Alloys | 2016 | 2022 |
| Nitin Mehrotra | Physical Sciences | Ajit Kumar Mohanty | Design Optimization of Heavy Ion RFQ and External Buncher | 2013 | 2022 |

Data taken from Ims.

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| Samapan Bhadury | Physical Sciences | Amaresh Kumar Jaiswal | Spin to Charge Conversion in Heterostructures Comprising Metallic Ferromagnets, Heusler Alloy along with Heavy Metal and Antiferromagnets | 2017 | 2023 |
| Gour Jana | Physical Sciences | Anamitra Mukherjee | Finite Temperature Study of Strongly Correlated Systems | 2015 | 2022 |
| Tirtha Mandal | Physical Sciences | Anand Moorti | Investigation on Intense, Ultra-short Laser Foil Interaction through Fast Electron Generation, Characterization and X-ray Studies | 2015 | 2022 |
| Sudip Kumar Sarkar | Physical Sciences | Aniruddha Biswas | Investigation of Nano-scale Phase Separation in Fe-Cr Alloys Using Complementary Techniques | 2016 | 2022 |
| Piyasi Biswas | Physical Sciences | Anjali Mukherjee | Study of Quasi-elastic Scattering at Near Barrier Energies for Weakly Bound Systems | 2016 | 2022 |
| Rabindra Nath Juine | Physical Sciences | Arindam Das | ZnS Nanoparticles for Photocatalysis, Optical Detector and Environmental Remediation | 2016 | 2022 |
| Ayan Kumar Patra | Physical Sciences | Arnab Kundu | Black Holes, Holography, and Quantum Information | 2017 | 2022 |
| Reshma P R | Physical Sciences | Arun K Prasad | Synthesis and Applications of Low Dimensional V2O5 Nanostructures | 2016 | 2023 |
| Brij Mohan | Physical Sciences | Arun Kumar Pati | Sequential Detection of Bipartite and Genuine Multipartite Entanglement | 2016 | 2023 |
| Megha | Physical Sciences | Arup Banerjee | Theoretical Investigations on Reactivity of Pure and Mixed Nanoclusters towards Some Environmentally Important Gases | 2016 | 2022 |
| Kawsar Ali | Physical Sciences | Arya Ashok Kumar | First-Principles Studies on Fe-Zr Alloys and BaZrO3 as Host Matrices for Nuclear Waste | 2016 | 2023 |
| Tanim Firdoshi | Physical Sciences | Ashok Kumar Mohapatra | Probing Thermalization and Deuteron Production Mechanism via Fluctuations in Heavy-ion Collisions in STAR at RHIC | 2016 | 2023 |
| Jagnaseni Pradhan | Physical Sciences | B Sundaravel | Studies of Ion Beam Modification of Graphene and Carbon Nanomaterials with Novel Properties | 2016 | 2023 |
| Pew Basu | Physical Sciences | B Venkataraman | Studies on Shielding Effectiveness of Composite Materials and Build-up Factors for Stratified Configurations | 2017 | 2022 |

Data taken from IMS.

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| Chandrasekaran S | Physical Sciences | B Venkataraman | Statistical Analysis and Uncertainty Evaluation in Dose Assessment Due to Spatial Distribution of Naturally Occurring Radioactive Materials (Norm) in Beach Sand of South East Coast of India Using Probabilistic Approach | 2015 | 2023 |
| Tarun Kumar Agarwal | Physical Sciences | B. K. Sapra | Study Of The Influence Of The Environmental Parameters On The Distribution Of Therom And Its Decy Products Through Computational Fluid Dynamic (Cfd) Modeling And Experiments | 2016 | 2023 |
| Dukhishyam Mallick | Physical Sciences | Bedangadas Mohanty | Microwave Electrometry with Rydberg Atoms in Thermal Atomic Vapor | 2016 | 2023 |
| Ashish Pandav | Physical Sciences | Bedangadas Mohanty | Manipulation of Non-Trivial Magnetic States in Electron Doped Noncollinear Antiferromagnetic Mn ₃ Sn | 2016 | 2023 |
| Tanmay Maiti | Physical Sciences | Biswajit Karmakar | Transport Properties of Quantum Hall Edge States | 2016 | 2022 |
| Santu Manna | Physical Sciences | Chandana Bhattacharaya | Clustering in Light Nuclei | 2016 | 2022 |
| Palash Dubey | Physical Sciences | Chethan N Gowdigere | Higher Order Corrections and Resummation in Perturbative QCD | 2015 | 2023 |
| Jagannath Santara | Physical Sciences | Chethan N Gowdigere | Studies on Linear and Nonlinear Optical Properties of Subwavelength Structures | 2016 | 2023 |
| Romesh Chandra | Physical Sciences | Debabrata Biswas | Design and Characterization of High Power Backward Wave Oscillator | 2016 | 2023 |
| Sayan Ghosh | Physical Sciences | Debasish Majumdar | Investigations on Some Physics Issues and Experimental Aspects of Dark Matter Search | 2016 | 2022 |
| Upala Mukhopadhyay | Physical Sciences | Debasish Majumdar | Addressing Late Time Cosmic Acceleration and Dark Energy from Theoretical Considerations along with Observational Predictions and the Impact of Primordial Black Hole Evaporation in Cosmological Observables | 2017 | 2022 |
| Radhakrishna B | Physical Sciences | G Raghavan | Compound Wave-retarders Towards Structuring the Light Beam | 2013 | 2022 |

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Prakash

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| Soumen De Karmakar | Physical Sciences | Ganesh Rajaraman | Collective Dynamics of Active or Self-propelled Particles | 2016 | 2023 |
| Pawandeep Kaur | Physical Sciences | Ganesh Rajaraman | Molecular Dynamics Study of Convection Cells in 2D Yukawa Liquids | 2016 | 2023 |
| Debjyoti Majumdar | Physical Sciences | Goutam Tripathy | Rigidity and collapse of melting DNA | 2016 | 2022 |
| Soumyadeep Ghosh | Physical Sciences | Haranath Ghosh | Theoretical Studies on Core Electron Spectroscopy of Some Novel Iron based and Chalcogenide Materials | 2016 | 2022 |
| Devshree Mandal | Physical Sciences | Hem Chandra Joshi | Some Studies on Interaction of Laser with Overdense Plasma | 2016 | 2022 |
| Ayushi Vashistha | Physical Sciences | Hem Chandra Joshi | Study of Laser Interacting with Magnetized Plasma | 2016 | 2022 |
| Durga Prasad Khatua | Physical Sciences | J Jayabalan | Ultrafast Photoexcited Carrier Dynamics in Two-Dimensional Molybdenum Disulfide | 2017 | 2022 |
| Mahfuzur Rahaman | Physical Sciences | Jane Alam | Transport Phenomena of Strongly Interacting Matter: Extensive and Nonextensive Scenarios | 2015 | 2022 |
| Sushant Kumar Singh | Physical Sciences | Jane Alam | Hydrodynamic Modeling of QCD Fluid with Critical Point in the Equation of State | 2016 | 2022 |
| Manali Nandy | Physical Sciences | John Philip | Magnetic Nanoemulsion Based Sensors for Visual Detection of Defects in Ferromagnetic Materials: Effect of Stabilizing Moieties and Defect Geometries on the Detection Sensitivity | 2016 | 2023 |
| M Raghu Ramaih | Physical Sciences | K Prabhakar | Photoinduced Deflection Studies in Si Microcantilevers: Role of Incident Laser Parameters and Microcantilever Dimensions | 2015 | 2022 |
| Rajnarayan De | Physical Sciences | K Divakar Rao | Fabrication and characterization of nano-structured thin films and multilayers by oblique angle deposition (OAD) technique | 2017 | 2023 |
| Sourav Chakraborty | Physical Sciences | Kalpataru Pradhan | Carrier Induced Ferromagnetism in Diluted Spin Systems | 2015 | 2022 |
| Saiyad Ashanujjaman | Physical Sciences | Kirtiman Ghosh | Phenomenology of the beyond Standard Model scenarios in the context of dark matter, neutrino and collider experiments | 2017 | 2023 |

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 Training School Complex, Anushaktinagar, Mumbai - 400 094

M. Nandy

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| Arunava Kar | Physical Sciences | Krishnakumar S. R. Menon | Geometric and Electronic Structures of Ultra-Thin Films on Metal/Semiconductor Surfaces: A Combined Experimental and Theoretical Study | 2017 | 2023 |
| Chiranjit Debnath | Physical Sciences | Kunwar Singh Bartwal | Synthesis and Characterization of Lithium Niobate Nanoparticles and Nanocomposites for Optical Applications | 2015 | 2023 |
| Raman Sehgal | Physical Sciences | Lalit Mohan Pant | Simulations and Measurements of Cosmic Muons with Position Sensitive Detectors for Muon Tomography | 2016 | 2023 |
| Kiranjot | Physical Sciences | Mohammed Hussein Modi | Studies on Ni/AlN and Ru/C Systems for Planar X-ray Waveguide Applications | 2017 | 2023 |
| Anindita Deka | Physical Sciences | Mrinmay Kumar Mukhopadhyay | Ion-induced Nano-patterning of Solid Surfaces at Low Energy Bombardment Regime | 2017 | 2022 |
| Ritesh Ghosh | Physical Sciences | Mustafa Munshi Golam | A Study on Some Aspects of Hot and Dense QCD Matter | 2017 | 2022 |
| Sujay Shil | Physical Sciences | Pankaj Agrawal | Signatures of Seesaw Models at Colliders | 2014 | 2022 |
| Vinay Vaibhav | Physical Sciences | Pinaki Chaudhuri | Searching for New Physics Via Approaches Beyond the Standard Model | 2015 | 2022 |
| Hariprasad M G | Physical Sciences | Pintu Bandyopadhyay | Experimental Investigation of Complex Plasma Crystals in a DC Glow Discharge Plasma | 2016 | 2022 |
| Joy Mukherjee | Physical Sciences | Prasanta Karmakar | Study of the Growth and Physico-Chemical Properties of Ion Induced Nano-layered Structure | 2017 | 2022 |
| Khorsed Alam | Physical Sciences | Prasenjit Sen | Rigidity and Collapse of Melting DNA | 2014 | 2022 |
| Mrinal Kanti Sikdar | Physical Sciences | Pratap Kumar Sahoo | Top Quark Analysis and Trigger Studies with CMS Run 2 dataset & Outer Tracker Upgrade for HL-LHC | 2017 | 2023 |
| Aloke Kumar Das | Physical Sciences | Prolay Kumar Mal | Probing the QCD Phase Diagram via Net-Proton Number Fluctuations at RHIC | 2017 | 2023 |
| Swayam Kesari | Physical Sciences | Rekha Rao | Vibrational and Structural Investigations of Phase Transitions in Vanadium Based Framework Oxides | 2017 | 2023 |
| Anupa Kumari | Physical Sciences | Ritwick Das | Fermion Zero Modes of Supergravity | 2016 | 2023 |
| Abhishek Mondal | Physical Sciences | Ritwick Das | Studying Multiplicity and Rapidity Dependence of K^* Production and Probing Initial Conditions of High Energy Collisions with ALICE at the LHC Energies | 2017 | 2023 |

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| Deepak | Physical Sciences | S M Yusuf | Structural, Electronic and Magnetic Correlations, and Exchange Bias effect in Negative Magnetization Materials | 2017 | 2023 |
| Chandiprasad Kar | Physical Sciences | Sanjay Kumar Swain | Structure and Dynamics of Binary Colloids in an External Potential: Role of Depletion Interaction | 2015 | 2023 |
| Anil Kumar | Physical Sciences | Sanjib Kumar Agarwalla | Studies on Response Uniformity of RPC and Exploring Oscillation Dip and Valley, Non-Standard Interactions, and Earth's Core using Atmospheric Neutrinos at ICAL-INO Detector | 2016 | 2022 |
| Atri Dey | Physical Sciences | Santosh Kumar Rai | Theoretical Studies of Materials for Electrocatalysis in Metal-Air Batteries and Hydrogen Generation | 2016 | 2022 |
| Atanu Maity | Physical Sciences | Saptarshi Mandal | Classical Orders, VBS, QSL in Fisher Lattice & Spin Wave Analysis in Hollandite lattice | 2015 | 2022 |
| Md Saifuddin | Physical Sciences | Satyajit Hazra | Nanostructuring, Ordering and Surface-interface Tuning of Organic and Metal-organic Thin Films | 2017 | 2023 |
| Arnab Purohit | Physical Sciences | Satyaki Bhattacharya | Search for a Low Mass Standard Model-like Higgs Boson and Measurement of Properties of the Observed 125 GeV Higgs Boson in gg Final State with the CMS Detector at the LHC | 2013 | 2022 |
| Debabrata Bhowmik | Physical Sciences | Satyaki Bhattacharya | Searching for Dark Matter with the CMS Detector in Proton-Proton Collisions Containing Large Transverse Momentum Imbalance in Association with a Higgs boson Decaying to Two Photons | 2015 | 2023 |
| Pranjal Pandey | Physical Sciences | Shamik Banerjee | Aspects Of Flat Space Holography | 2017 | 2023 |
| Arindam Mitra | Physical Sciences | Sibasish Ghosh | Thermo-mechanical Response of Glassy Systems | 2015 | 2023 |
| Mitali Mondal | Physical Sciences | Subhasis Chattopadhyay | Development of Resistive Plate Chambers for Muon Detection System of the CBM Experiment at FAIR | 2015 | 2022 |
| Gourab Saha | Physical Sciences | Suchandra Dutta | Search for Non-Resonant Higgs Boson Pair Production in the HH W+W- Decay Channel in p - p Collisions using CMS Data at $\sqrt{s}=13$ TeV at the LHC | 2016 | 2023 |


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| Shivam Kumar Mishra | Physical Sciences | Sudip Sengupta | Radiation Reaction Effects on Laser Driven Acceleration of Charged Particles | 2014 | 2023 |
| Nidhi Rathee | Physical Sciences | Sudip Sengupta | Breaking of Large Amplitude Electrostatic Waves in Inhomogeneous Plasma | 2016 | 2023 |
| Arkajyoti Manna | Physical Sciences | Sujay K. Ashok | Aspects of Compatibility of Quantum Devices and Quantum Communication using Quantum Switch | 2017 | 2022 |
| Soheli Mukherjee | Physical Sciences | Sumedha | Defect Engineering in ZnO Nanostructures for Optoelectronic Applications | 2017 | 2023 |
| Rezwana Sultana | Physical Sciences | Supratic Chakraborty | Characterization of Sputter Deposited Zr-Doped Hafnium Oxide Thin-Films | 2017 | 2023 |
| Karimul Islam | Physical Sciences | Supratic Chakraborty | Deposition and Characterization of Niobium Oxide Thin-Films | 2017 | 2023 |
| Vishal Kumar | Physical Sciences | Supratik Mukhopadhyay | Comparative Study of Gas Detectors and Their Suitability for Imaging | 2016 | 2022 |
| Harish Chandra Das | Physical Sciences | Suresh Kumar Patra | Perusing some Neutrino Mass Models at the LHC | 2018 | 2023 |
| Rajitha R | Physical Sciences | T R Ravindran | Study of Phase Transformations in Some Insensitive Secondary Explosives Using Raman Spectroscopy, XRD and DFT Calculations | 2015 | 2022 |
| Md Samsul Islam | Physical Sciences | Tinku Sinha Sarkar | Study of Heavy Flavour Decay Muons at Forward Rapidity in Proton-Proton and Heavy-Ion Collisions at LHC Energies | 2016 | 2022 |
| Chirag Srivastava | Physical Sciences | Ujjwal Sen | Impacts of Dark Matter Interaction on Nuclear and Neutron Star Matter within the Relativistic Mean-Field Model | 2015 | 2022 |
| Aparna Sankar | Physical Sciences | V. Ravindran | Exact Renormalization Group and the O(N) Model | 2017 | 2023 |
| Chiranjib Das | Physical Sciences | Vaishali Naik | Beam Dynamics and RF Design of 80 MHz RFQ Injector for ANURIB | 2015 | 2022 |
| Atula Charan Sahoo | Physical Sciences | Vas Dev | Isotope Selective Photoionization Spectroscopy of Atomic Samarium using Pulsed Dye Laser | 2016 | 2023 |
| Semanti Dutta | Physical Sciences | Venkata Suryanarayana Nemani | Investigations into Quantum Compass Models in Two Dimensions | 2016 | 2022 |

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| Rijul Roychowdhury | Physical Sciences | Vijay Kumar Dixit | Spectroscopic Investigations on MOVPE Grown Gallium Phosphide Epi-layers Integrated on Polar and Non-Polar Substrates | 2014 | 2022 |
| Rahul Gaur | Physical Sciences | Vinit Kumar | Electromagnetic and Nonlinear Beam Dynamics Studies of 3 MeV, 325 MHz RFQ for 1 GeV, 1 MW H- Linear Accelerator | 2015 | 2023 |

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