

## Science & Engineering Research Board

<b>NPDF Projects Sanctioned in the Year 2019-20</b>				
<b>S.No</b>	<b>Discipline</b>	<b>Title</b>	<b>PI Details</b>	<b>Tota Cost</b>
1.	Chemical Sciences	Probing The Viscoelastic Tunability And Surface Rigidity of Phospholipid Assemblies In The Presence of Aromatic Aminoacid Analogues.	Gulmi Chakraborty, Jadavpur University, Kolkata,West Bengal,700032	1920000
2.	Chemical Sciences	Single Atom Stabilized Heteroatom Doped Carbon Nanomaterials For Bio-Fuels Up-Gradations	Reena Goyal, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	1920000
3.	Chemical Sciences	Nanostructured Molecularly Imprinted Fluorescent Polymer For The Quantification Of Catecholamine	Saugata Sahu, Central Leather Research Institute, Chennai,Tamil Nadu,600020	2236800
4.	Chemical Sciences	Colloidal Two-Dimensional Metal Chalcogenides with Tunable Plasmonic Properties for Broadband Photodetection	Sumana Paul, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	1920000
5.	Chemical Sciences	Retinal Isomerization and Non-adiabatic QM/MM surface hopping dynamics on the electronically excited states in Channelrhodopsin-I.	Arpita Ghosh, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	2236800
6.	Chemical Sciences	Development of Synthetic Strategies for the Stereospecific Functionalization of Indoles.	Dinesh Kumar Nayak, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	2131200
7.	Chemical Sciences	Computational Study on the Selectivity of Hydrosilylation and Hydroboration of dienes	Remya P R, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
8.	Chemical Sciences	Reactivity of Thiolates and Nitric Oxide with Mononuclear Transition Metal Complexes	Manisha Das, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	2236800
9.	Chemical Sciences	Magnetized carbon nanotubes in magnetic data storage devices	Reetu Sharma, Indian Institute of Technology Hyderabad, Hyderabad,TELANGANA,502205	2236800
10.	Chemical Sciences	Development of Multifunctional Carbon-Based Nanoprobe for Biomedical and Environmental Applications	Chumki Dalal, Malviya National Institute of Technology, Jaipur,Rajasthan,302017	2131200
11.	Chemical Sciences	Hetero-bimetallic Nanoparticles on the Surface of Carbon Templates: Development of New Material for Heterogeneous Catalysis	Melad Shaikh, Indian Institute of Science Education and Research Tirupati, Tirupati,Andhra Pradesh,517507	2025600

12.	Chemical Sciences	AI Egen-Based Pseudorotaxane and Their Self-Assembled Structure as Fluorescent Bioimaging Probe and Drug Delivery Carrier.	Debarati Ray, Indian Association For The Cultivation of Science, Kolkata, West Bengal, 700032	2236800
13.	Chemical Sciences	Design and Synthesis of Metal-Organic Frameworks for their Application in Biomedical, Energy and Environmental Challenges	Anoop Kumar Gupta, Indian Institute of Technology Indore, Indore, Madhya Pradesh, 452011	2131200
14.	Chemical Sciences	Decoding the Amyloid- $\beta$ Aggregation Mechanism for Plausible Drug Design from Computational Approach	Debasis Saha, Indian Association For The Cultivation of Science, Kolkata, West Bengal, 700032	2236800
15.	Chemical Sciences	Design of Polymer-based Fluorescent Probes for the Selective Sensing and Removal of Arsenic in Biotic and Abiotic Samples along with the in vivo/vitro Fluorescence Bio-imaging Studies	Abu Salehmusha Islam, Indian Association For The Cultivation of Science, Kolkata, West Bengal, 700032	2236800
16.	Chemical Sciences	Selective $\beta$ -substituted Corroles in Electrocatalysis and Singlet Oxygen Generation	Sudhakar Kolanu, University of Hyderabad, Hyderabad, TELANGANA, 500046	2236800
17.	Chemical Sciences	Investigation on the Functional Properties of TiZr-based High-Entropy Materials	Shashank Shekhar Mishra, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, 208016	1920000
18.	Chemical Sciences	Development of nanocomposite materials for removal of arsenic and detection of pesticides from water	M Raju, University of Hyderabad, Hyderabad, TELANGANA, 500046	2236800
19.	Chemical Sciences	Synthesis of $\Pi$ -Extended Carbon Materials Using Aryne as Building Block	Manashi Sarmah, North East Institute of Science & Technology, Jorhat, Assam, 785006	2025600
20.	Chemical Sciences	Highly Stable Metal Organic Frameworks (MOFs) For Selective Carbon Dioxide Capture and its Chemical Fixation at Ambient Conditions	Vijay Gupta, Indian Institute of Technology Ropar, Ropar, Punjab, 140001	2025600
21.	Chemical Sciences	Development of efficient metal free two-dimensional materials for energy and environment: an ab initio investigation	Vivek Kumar Yadav, International Institute of Information Technology Bangalore, Bangalore, Karnataka, 560100	2236800
22.	Chemical Sciences	Design of Alkynes/Styrenes as in-situ source of $\alpha$ -Ketothioesters: Application of $\alpha$ -Ketothioesters as a new 1,2-Dicarbonyl-forming Reagents	Atul Kumar, Central University of Jammu, Jammu, Jammu and Kashmir, 180012	2025600
23.	Chemical Sciences	Asymmetric organocatalytic transformations using Hypervalent Iodine reagents.	Manoj Kumar Ghosh, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005	2131200

24.	Chemical Sciences	Isocyanide chemistry: Copper nano catalyzed Development of new methodologies for the synthesis of biologically important heterocycles	Dipak Kumar Tiwari, Centre of Biomedical Research, Lucknow,Uttar Pradesh,226014	1920000
25.	Chemical Sciences	Project title: Development of Antireflective, Anti-corrosive and Mechanically Robust Waterborne Superhydrophobic Polymers for Sensing and Solar Cell Applications	Deepshikha Hazarika, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	2131200
26.	Chemical Sciences	Stimuli Responsive Multi-Componental Metallogels via Coordination Cages.	Soumyakanta Prusty, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	1920000
27.	Chemical Sciences	Designing of rare-earth selective substitution at a metal organic framework to highly efficient luminescent security feature for anti-counterfeiting applications	Vikash Kumar Tripathi, National Physical Laboratory, New Delhi,Delhi,110012	2236800
28.	Chemical Sciences	Fabrication of ABO <sub>3</sub> -Type Oxide Pervoskite Photoanode based High Performance Dye-Sensitized Solar Cells: Validation of Plasmonic Effect and Charging Effect on its Photovoltaic Parameters	Shalini Devi K, Central Electro Chemical Research Institute, Karaikudi,Tamil Nadu,630006	2025600
29.	Chemical Sciences	Assembling the flexible and freestanding 3D architected carbonaceous nanostructures materials as long lifespan component for the pouch type Lithium-Sulfur (Li-S) cells.	Raj Kumar T, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	2236800
30.	Chemical Sciences	Thermally Activated Delayed Fluorescence Materials: A Paradigm for Next Generation Highly Efficient OLEDs.	Suresh Thogiti, University of Hyderabad, Hyderabad,TELANGANA,500046	2236800
31.	Chemical Sciences	Nanoemulsion Hydrogel Platform for Thermodynamic Stability and Enhanced Bioavailability of Curcumin from Curcuma longa for topical administration	Meena Bisht, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2236800
32.	Chemical Sciences	Designing Metal Nanoparticle loaded Metal-Organic Frameworks and derived mesoporous carbon for electrochemical reduction of CO <sub>2</sub>	Feroz Ahmad Sofi, University of Kashmir, Srinagar,Jammu and Kashmir,190006	1574400
33.	Chemical Sciences	Development of small molecules to induce mitochondrial damage by selectively perturbing anti-apoptotic Bcl-2 family proteins for next-generation cancer chemotherapy	Sopan Valiba Shinde, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	1920000

34.	Chemical Sciences	Metal Organic Framework Derived Nano electrocatalysts for Electrolysis of Water to generate Gaseous Fuel	Aneeya Kumar Samantara, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar, Orissa, 751005	2131200
35.	Chemical Sciences	Development and Fabrication of High Power Energy and Density Supercapacitor based on Conjugated Microporous Polymer	Sujoy Bandyopadhyay, Advanced Materials and Processes Research Institute, Bhopal, Madhya Pradesh,	1920000
36.	Chemical Sciences	Developing 2D Nanomaterials for CO2 Reduction: Kelvin Probe Microscopy as a Tool for Investigating the Electrocatalytic Nature	Priya Madhuri K, Indian Institute of Science, Bangalore, Bangalore, Karnataka, 560012	2236800
37.	Earth & Atmospheric Sciences	Development of Low-Cost Novel Biomaterials For In-Situ Groundwater/Soil Remediation: A Safe Drinking Water Production Perspective	Santanu Mukherjee, Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat, 382424	1920000
38.	Earth & Atmospheric Sciences	Temporal Variations In Molecular, Isotopic, Elemental, And Maceral Compositions of Lignite-Bearing Sequences In Response To Changes In Vegetal Source, Climate, Thermal And Depositional Settings	Vikram Pratap Singh, Birbal Sahni Institute of Palaeosciences, Lucknow, Uttar Pradesh, 226007	1920000
39.	Earth & Atmospheric Sciences	Understanding The Paleoearthquake Characteristics And Quaternary Landform Evolution Along The Eastern Himalayan Front, India: An Appraisal of The Earthquake Recurrence And Seismic Hazard In The Region	Rajeeb Lochan Mishra, National Geophysical Research Institute, Hyderabad, Telangana, 500007	1920000
40.	Earth & Atmospheric Sciences	Investigation On The Temporal Variation of Vertical Wind And Turbulence In Upper Troposphere Lower Stratospheric (UTLS) Region From ST Radar Observations	Muhsin Muhammed, National Institute of Technology Calicut, Calicut, Kerala, 673600	1920000
41.	Earth & Atmospheric Sciences	Potential of Hyperspectral And Multispectral Imagery In Detecting Vegetation Crop Marks Under Varying Irrigation Treatments	Shreedevi Moharana, Indian Institute of Technology Hyderabad, Hyderabad, Telangana, 502205	1440000
42.	Earth & Atmospheric Sciences	Investigation of ionospheric variability and wave coupling during Sudden Stratospheric Warming and Earthquake	Sumedha Gupta, Indian Institute of Tropical Meteorology, Pune, Maharashtra, 411008	2236800
43.	Earth & Atmospheric Sciences	Bio-geochemical cycling of elements in Archean seawater and genesis of iron formations: insights from petrography and in-situ mineral chemistry of iron formations of Iron Ore Group, Singbhum Craton	Rupam Ghosh, Indian Institute of Science Education and Research Kolkata, Nadia, West Bengal, 741246	1920000

44.	Earth & Atmospheric Sciences	Paleoenvironmental reconstruction of Late Jurassic black shales from Kutch Basin, western India using inorganic and organic geochemistry	Swagata Paul, Savitribai Phule Pune University, Pune,Maharashtra,411007	2236800
45.	Earth & Atmospheric Sciences	PHYSICS-BASED SIMULATION MODEL OF SEISMIC WAVE PROPAGATION FOR HAZARD ASSESSMENT	Nilutpal Bora, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	2131200
46.	Earth & Atmospheric Sciences	High-resolution Reconstruction of Atmospheric Carbon dioxide (CO <sub>2</sub> ) Variation from Tropical Indian Ocean for the Late Quaternary	Dharamendra Pratap Singh, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	1920000
47.	Earth & Atmospheric Sciences	Nano-Bio Hybrid using Halloysite Nanotube Hydrogel and Microbial Consortium for Methane Oxidation and Carbon Sequestration in Rice Soils to Promote Low Carbon Sustainable Agriculture	Abhinayaa Raja, Tamil Nadu Agricultural University, Coimbatore,Tamil Nadu,641003	2131200
48.	Earth & Atmospheric Sciences	The Effect of Salinity on the Arctic Sea-Ice	Joshua Rosario Dmello, National Centre For Polar and Ocean Research, Vasco-Da-Gama,Goa,403004	2131200
49.	Earth & Atmospheric Sciences	A long-term satellite-based observation analysis of aerosol-warm cloud interaction associated with meteorological condition over the Indian region	Sunny Kant, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	720000
50.	Earth & Atmospheric Sciences	Assessing the changes in storm surges and extreme sea levels along the Indian coast based on historic tide gauge data	Charls Antony, Indian National Centre For Ocean Information Services, Hyderabad,TELANGANA,500090	2236800
51.	Earth & Atmospheric Sciences	Turbulence and Reconnection with application to substorms in magnetosphere.	Neha Pathak, Delhi Technological University, New Delhi,Delhi,110042	2236800
52.	Earth & Atmospheric Sciences	Understanding lightning activity over Indian Sub-continent and its impact on Earth's atmosphere and climate	K Venkatesham, University of Allahabad, Allahabad,Uttar Pradesh,211002	2131200
53.	Earth & Atmospheric Sciences	Assessment of temporal dynamics and variability of carbon, water vapour and energy flux densities of agroecosystem using eddy covariance flux tower and satellite remote sensing	Suman Samanta, Indian Agricultural Research Institute, New Delhi,Delhi,110012	1920000
54.	Earth & Atmospheric Sciences	Biogeochemical analysis of sediment to characterize the state and fate of organic matter in Krishna-Godavari Basin: Implications to global carbon cycle	Sayak Basu, National Institute of Oceanography, Goa, Dona Paula,Goa,403004	1920000
55.	Earth & Atmospheric Sciences	Investigation of magnetosphere-ionosphere coupling during the geomagnetic storm and substorm events	Diptiranjana Rout, Vikram Sarabhai Space Centre, Thiruvananthapuram,Kerala,695022	1920000

56.	Earth & Atmospheric Sciences	Coupled Biogeochemical Ocean Sea Ice Modeling in the Southern Ocean around the Indian Antarctic Stations	Anurag Kumar, Banaras Hindu University, Varanasi,Uttar Pradesh,221005	2131200
57.	Engineering Sciences	Studies On Design Of Multi-Band/Wide-Band Invisibility Cloaks For Different Polarization States	Archana Rajput, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	1920000
58.	Engineering Sciences	Crystal Engineering of Soft-flexible Organic Molecular Crystals for Application in Piezoelectric Materials	Subhankar Saha, Indian Institute of Science Education and Research Kolkata, Nadia,West Bengal,741246	2236800
59.	Engineering Sciences	Impact wave propagation in ordered 2-D and 3-D granular crystals in the presence of defects using discrete element modeling	Raghu Ram Karthik Desu, Indian Institute of Technology Hyderabad, Hyderabad,TELANGANA,502205	2236800
60.	Engineering Sciences	Precision Medicine from Human Genome Data by using Machine Learning and Artificial Intelligence	Rashmi S, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
61.	Engineering Sciences	Bioinspired Nanocracks for Water Desalination Applications	Padmavathy Nagarajan, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
62.	Engineering Sciences	Development of Sparsity-Driven Filtering Methods for Real-time Reconstruction of Biosignals using Single Board Computers	Priya Ranjan Muduli, Indian Institute of Technology Hyderabad, Hyderabad,TELANGANA,502205	2236800
63.	Engineering Sciences	Metalized gel fuel for air-breathing propulsion: fuel development and combustion physics	Manisha B Padwal, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	1920000
64.	Engineering Sciences	Development of a fast algorithm for calculating the micro-mechanical fields in dislocation dynamics simulations	Nipal Deka, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
65.	Engineering Sciences	Interfacial behavior of the oil-water-electrolyte system on substrates in the presence of surfactants and nanoparticles	Jyoti Sahu, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2131200
66.	Engineering Sciences	Revisiting the traditional biomethanation: Replacing cattle dung with fibrolytic anaerobic fungi and methanogenic archaea in light of multi-omics approaches	Kriti Sengupta, Agharkar Research Institute, Pune,Maharashtra,411004	2236800
67.	Engineering Sciences	CO <sub>2</sub> insertion into C(sp <sup>3</sup> )-H and C(sp <sup>2</sup> )-H bonds for the synthesis of fine chemicals over nanostructured materials	Lovjeet Singh, Indian Institute of Petroleum, Dehradun,UTTARAKHAND,248005	2131200

68.	Engineering Sciences	Study and Development of Bioresorbable Sensors for in vivo Monitoring of Critical Parameters in Post-operative Refractory Epilepsy Treatment	Tushar Sakorikar, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
69.	Engineering Sciences	Diffusive Molecular Communication in Nanonetworks: Energy harvesting, In vivo Biomedical Applications, and Prototype Development	Satish Kumar Tiwari, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
70.	Engineering Sciences	Bioactive, three dimensional sponge-type silk-silica composite scaffolds for bone tissue engineering	Sushma Kumari, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
71.	Engineering Sciences	Experimental characterization and advanced computational modelling of viscous gas-liquid-solid flows in a slurry reactor	Parul Tyagi, Indian Institute of Technology Roorkee, Roorkee,UTTARAKHAND,247667	2025600
72.	Engineering Sciences	Leveraging deep learning for prediction and tracking of future instances of video	Amit Satish Unde, Indian Institute of Technology Mandi, Mandi,Himachal Pradesh,175005	1920000
73.	Engineering Sciences	Surface engineering of additively manufactured titanium implants using 2D quantum-dots for enhanced bioactivity	Santanu Ghosh, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
74.	Engineering Sciences	PRINTED GAS SENSORS WITH 2D MATERIALS FOR BREATH ANALYZERS TOWARDS EARLY DISEASE DIAGNOSIS	Ravindra Kumar Jha, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
75.	Engineering Sciences	DEVELOPMENT OF GOLD NANOPARTICLES BASED STRIP FOR DETECTION OF AFLATOXINS IN COOKING OIL	Ankita Jagannath Lakade, Vellore Institute of Technology, Vellore,Tamil Nadu,632014	2025600
76.	Engineering Sciences	Electrochemical biosensor for detections of cardiac biomarker (troponin-cTnI & cTnT) using chitosan modified mesoporous hollow CNT@NiMn-LDH nanocomposite	Nivedhini Iswarya C, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
77.	Engineering Sciences	Fabrication of laser-assisted SiC thin film energy storage and conversion devices	Prashantha Kumar Hg, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
78.	Engineering Sciences	Simultaneous removal of harmful bacteria and heavy metal oxyanions for water treatment using recyclable polymer nano-swabs and dual functionalized nanoparticles	Archana Mukundrao Raichur, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000

79.	Engineering Sciences	Versatile application of synthesized bio innovative nanosorbent for synergistic remediation of pharmaceutical contaminant, oil and dye from industrial effluent: A phenomenological Mathematical modeling approach of biosorption behaviour and interaction pat	Suganya E, Indian Institute of Technology Guwahati, Guwahati,Assam,781039	1920000
80.	Engineering Sciences	Continuous production of scaffolds for drug delivery and tissue regeneration applications using microbubbles in Ionic liquid-biopolymer matrix	Mohit J Mehta, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	1920000
81.	Engineering Sciences	Point of care fluorescent sensing chips for detection of heavy metals in water/beverages	Monika, Panjab University, Chandigarh,Chandigarh,160014	2131200
82.	Engineering Sciences	Investigation of corrosion and passive film behaviour of stainless steel and carbon steel container in concrete pore solution along with geological media for long term stability of nuclear waste package during geological disposal	Lipika Rani Bairi, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	1920000
83.	Engineering Sciences	Network Coding for low-delay high-throughput applications in wireless networks	Niladri Das, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
84.	Engineering Sciences	Fabrication and characterization of ZnON based photo sensors	Aswathi R Nair, National Institute of Technology Calicut, Calicut,Kerala,673600	1920000
85.	Engineering Sciences	Fluoropolymer Coatings for Bio-Fouling Applications via Cold Spray	Kesavan Ravi, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
86.	Engineering Sciences	Asynchronous Boolean Network Modelling of Nuclear Factor kappa-B Signalling Network and Prediction of Therapeutic Intervention Strategies	Haimabati Das, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2236800
87.	Engineering Sciences	Novel Process for Production of Fuels and Building Block Chemicals from Biorenewable Resources Using 2D Dichalcogenides	Shireen Quereshi, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2236800
88.	Engineering Sciences	A point-of-care platform for multiplexed detection of breast cancer biomarkers	Anju Joshi, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
89.	Engineering Sciences	Structure modified Heusler compounds for high efficient solar, superconductive and thermoelectric devices: First principle approach	Himanshu Joshi, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	1920000



90.	Engineering Sciences	Dynamic Interaction of Offshore Wind Farm through MTDC Network with Onshore AC Grid	Omkar Yadav, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000
91.	Engineering Sciences	Development of a nanotechnology based phytoremediation strategy for remediation of cadmium contaminated soil and exploration of its associated environmental impacts	Mansi Bakshi, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2236800
92.	Engineering Sciences	Microbial Electrosynthesis of Multicarbon Chemicals from CO <sub>2</sub> Sequestration.	Patharla Chiranjeevi, Indian Institute of Technology Hyderabad, Hyderabad,TELANGANA,502205	2236800
93.	Engineering Sciences	Microencapsulation of saffron bioactive compounds by electrospinning through double layered multiple emulsion of maltodextrin and zein protein concentrate.	Jasia Nissar, University of Kashmir, Srinagar,Jammu and Kashmir,190006	2131200
94.	Engineering Sciences	Development of Environmental-Friendly BiCuSeO-based Nanocomposite Materials and Device fabrication for Thermoelectric Power Generation	Mandvi Saxena, Bhabha Atomic Research Centre, Mumbai,Maharashtra,400085	1920000
95.	Fser-Sc (Cs)	Structure and Interaction in Membrane Mimetic Lipid Mono / bilayers with DNA/ DNA Origami Structures	Biplab Roy, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
96.	Fser-Sc (Cs)	Understanding and Controlling Non-Covalent Interactions Involving sigma-Hole and Its Role in Supramolecular Chemistry and Material Science. A Quantum Mechanical Study	Dipankar Sutradhar, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
97.	Fser-Sc (Cs)	Metal-organic framework templated shape engineering of functionalized cross-linked polymer gel for biomedical applications	Rana Dalapati, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	2236800
98.	Fser-Sc (Cs)	Asymmetric electrophilic arylthiolation/trifluoromethylthiolation using novel Se-based chiral Lewis base catalyst	Keerthi Krishnan K, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
99.	Fser-Sc (Cs)	Polyanionic electrode materials for sodium-ion battery applications	Mani Vellaisamy, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
100.	Fser-Sc (Cs)	Development of Highly Efficient Photodetectors using Transition Metal ions Doped CsPbX <sub>3</sub> (X=Cl, Br, and I) Perovskite Nanocrystals	Kaliyamoorthy Justice Babu, Institute of Nano Science and Technology, Mohali,Punjab,160047	2131200

101.	Fser-Sc (Es)	Durability and integrity studies of CNT/Polymer interface in polymeric composites at different environments	Sanghamitra Sethi, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000
102.	Fser-Sc (Ls)	Precise And Accurate Examination of Bacterial Lithogenic Urine Biomarkers (BaLUB) For Kidney Stone Disease	Mangesh Vasant Suryavanshi, Yenepoya University, Mangalore,Karnataka,575018	1920000
103.	Fser-Sc (Ls)	Structure Based Design Of Anti-Thyroid Drugs Using Mammalian Heme Peroxidases, Thyroid Peroxidase / Lactoperoxidase As Potential Drug Targets.	Viswanathan, All India Institute of Medical Sciences, Delhi, New Delhi,Delhi,110029	1920000
104.	Fser-Sc (Ls)	Study The Effects Of Small Molecule Mediated G-Quadruplex Stabilization On Induction Of Autophagy In Cell Culture Model Of Breast Cancer	Piyali Majumder, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	1920000
105.	Fser-Sc (Ls)	Mitigation of arsenic and enhancing rice grain yield through elemental based formulation for arsenic affected areas of Uttar Pradesh	Amit Kumar, University of Lucknow, Lucknow,Uttar Pradesh,226007	2131200
106.	Fser-Sc (Ls)	Understanding the molecular crosstalk between early Spodoptera perception and Jasmonate biosynthesis	Janesh Kumar Gautam, National Institute of Plant Genome Research, New Delhi,Delhi,110067	2236800
107.	Fser-Sc (Ls)	Functional analysis of outer membrane protein (OpmW) in K. pneumoniae and investigating its potential for development of antibody therapy against multidrug resistant isolates	Moon Moon Das, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	1920000
108.	Fser-Sc (Ls)	In Vivo Osteogenic and Angiogenic repair mechanisms influenced by Mesenchymal Stem cells using Cell Sheet based Tissue Engineering	Dharunya G, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2236800
109.	Fser-Sc (Ls)	Development of Point of Care (POC) diagnostic Molecular Probes for simple and real time detection of mycotoxins (Aflatoxin B1, Ochratoxin A, and Zearalenone) in food samples using novel SELEX (systematic evolution of ligands by exponential enrichment) bas	K Naveen Kumar, Bharathiar University, Coimbatore,Tamil Nadu,641046	2131200
110.	Fser-Sc (Ls)	Mycobacterial gene expression in relevance to treatment outcome of pulmonary TB patients	Kalaiselvi K, Lepra Society-Blue Peter Public Health & Research Centre, Hyderabad,Telangana,501301	2236800
111.	Fser-Sc (Pms)	Ordinary and symbolic powers of squarefree monomial ideals and combinatorics	S Selvaraja, Institute of Mathematical Sciences, Chennai,Tamil Nadu,600113	2236800

112.	Life Sciences	Molecular Genomic Approaches To Identify The Gene Regulatory Networks Underlying of Hypocotyl Growth In Response To The Developmental And Environmental Stimuli	Souvik Dhar, Indian Institute of Science,Bangalore, Bangalore,Karnataka,560012	1920000
113.	Life Sciences	Differential Methylation of Ribosomal RNA And Its Implication On Translational Regulation In Neurons	Naveen Kumar Chandappa Gowda, Institute For Stem Cell Biology & Regenerative Medicine, Bangalore,Karnataka,560065	1920000
114.	Life Sciences	Assessment of Phosphorus Deficiency On Plant Growth, Water Use Efficiency And Grain Yield Related Traits of Foxtail Millet Using High-Throughput Phenotyping Platforms	Tharanya Murugesan, International Crops Research Institute For The Semi Arid Tropics, Patancheru,Andhra Pradesh,502324	1920000
115.	Life Sciences	Histochemical, Gene Expression And Targeted Metabolomic Analyses of Plectranthus Ambionicus Probing At Foliar Trichome Role For Volatiles Synthesis And Emission	Waikhom Bimolata, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	1920000
116.	Life Sciences	Understanding Cellular Stress Due To Protein Misfolding To Design Next Generation Platform For Tolerance Engineering In E.Coli To Overexpress Misfolded Toxic Proteins.	Arunangshu Das, Institute of Genomics And Integrative Biology, Delhi,Delhi,110007	1920000
117.	Life Sciences	Bridging Genetic Variability And Phenotypic Diversity For Sustainable Utilization And Conservation of Underutilized Crops From North-Western Himalayan Region	Nikhil Malhotra, National Bureau of Plant Genetic Resources, New Delhi,Delhi,110012	1920000
118.	Life Sciences	Identification, Cloning, Characterisation And Assessment of The Potentiality of An Aeromonas Phage Endolysin As An Antimicrobial Agent Against Multi Drug Resistant Aeromonas Hydrophila	Pallavi Baliga, Karnataka Veterinary Animal And Fisheries Science University, Bidar,Karnataka,585401	1920000
119.	Life Sciences	Deciphering The Effect of Quercetin On The Mitochondrial Dysfunction, Endoplasmic Reticulum Stress And Oxidative Stress In Rotenone Induced Parkinsonism	Pratibha Tripathi, Central Drug Research Institute, Lucknow,Uttar Pradesh,226031	1920000
120.	Life Sciences	Investigating the Role of Natural Selection on Geminivirus Encoded C4/AC4 Protein and Its Functional Significance in Host-Pathogen Interactions	R Vinoth Kumar, National Centre For Biological Sciences, Bangalore,Karnataka,560065	1920000
121.	Life Sciences	Mechanism of Translational Regulation By TsRNAs	Lahari Yeramala, National Centre For Biological Sciences, Bangalore,Karnataka,560065	1920000

122.	Life Sciences	Structural Aspects of Protein Synthesis In Plasmodium Falciparum Mitochondria	Mohd Wahab Khan, Regional Centre For Biotechnology, Faridabad,Haryana,	1920000
123.	Life Sciences	Fabrication of Phenylboronic Acid Coupled Niosome Nanocarriers For Coencapsulation of Indomethacin And Doxorubicin: Strategic Treatment For Multi-Drug Resistant Breast Cancer	M Gover Antoniraj, Alagappa University, Karaikudi,Tamil Nadu,630003	1920000
124.	Life Sciences	Understanding The Effect of Cow Milk Derived Beta Casomorphins 7/9 On Neuroblastoma Cells Functioning: Implications On Neuronal Disorders	Vishal Sharma, National Bureau of Animal Genetics Resources, Karnal,Haryana,132001	1920000
125.	Life Sciences	To Create A Time-Course Proteome Landscape of Engineered Fungal Strain Penicillium Funiculosum Mig1 <sup>88</sup> /ClrB To Comprehend The Limiting Factors In Cellulase Expression And Secretion Under Inducing Conditions.	Anmoldeep Randhawa, International Centre For Genetic Engineering And Biotechnology(Icgeb), New Delhi,Delhi,110067	1920000
126.	Life Sciences	A Comparative Study of Sub-Genomic RNA Levels In Severe And Non-Severe Dengue Cases	Nazia Afreen, Jawaharlal Nehru University, New Delhi,Delhi,110067	1920000
127.	Life Sciences	Renewable Nanobiocatalyst And Biological 'Fossil Fuel' Production	Arghya Bandyopadhyay, Indian Institute of Science Education And Research Kolkata, Nadia,West Bengal,741246	1920000
128.	Life Sciences	Evaluating The Role of Circulating EBV (Epstein–Barr Virus) MiRNAs In The Pathogenesis of Nasopharyngeal Carcinoma (NPC) In Northeaster Region of India	Pamchui Muiwo, Manipur University, Imphal,Manipur,795003	1920000
129.	Life Sciences	Development of Liposomal-Magnetic Nanoparticle Hybrid System For Nucleic Acid Delivery In Plant / Mammalian Hosts	Sanjeev Kumar Jat, Jawaharlal Nehru University, New Delhi,Delhi,110067	1920000
130.	Life Sciences	Deciphering The Role of Auxin And Brassinosteroids Signaling In Shoot Apex And Leaf Development Under High Ambient Temperature Conditions.	Kumud Saini, National Institute of Plant Genome Research, New Delhi,Delhi,110067	1920000
131.	Life Sciences	Investigating Sexually Dimorphic Function of The X-Inactivation Escape Gene Smcx/Kdm5c	Lakshmi Sowjanya Bammidi, Indian Institute of Science,Bangalore, Bangalore,Karnataka,560012	1920000
132.	Life Sciences	The Role of Mitochondrial Proteins In Regulation of Senescence, Invasion And Stemness In Glioma Cells	Debmita Chatterjee, Saha Institute of Nuclear Physics, Kolkata,West Bengal,700064	1920000

133.	Life Sciences	Deciphering Molecular Targets of Bioactive Molecules of Indian Plants By Construction of Large Scale Metabolite-Protein Interaction Map Between Pathogen Proteins And Plant Metabolites And Development of Public Resources For Comprehensive Information.	Saurabh Gayali, Institute of Genomics And Integrative Biology, Delhi,Delhi,110007	960000
134.	Life Sciences	Structural & Functional Studies of Signature Sequence Proteins From Mycobacterium Tuberculosis: An Insight Towards Diagnostic And Therapeutic Capabilities.	Nilisha Rastogi, National Institute of Pathology, New Delhi,Delhi,110029	1920000
135.	Life Sciences	Identification of A Novel Long Non Coding RNA Signature In Glioblastoma Stem-Like Cells And Its Role To Regulate The Metastatic Progression.	Samarjit Jana, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	1920000
136.	Life Sciences	Development of A Structure-Based Optimization Algorithm To Predict Antimicrobial Resistance (AMR) Conferring Mutations In Proteins.	Akhil Kumar, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	1920000
137.	Life Sciences	Functional Interrelation of ZBF1/MYC2 And FLC In Arabidopsis Seedling Development And Flowering Time	Nibedita Chakraborty, National Institute of Technology Durgapur, Durgapur,West Bengal,713209	1920000
138.	Life Sciences	Angiogenic Reprogramming of Circulating Mononuclear Cells By Mechanical Shear	Abel Arul Nathan, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	1920000
139.	Life Sciences	Efficiency of Phytobiotics From Culinary Herbs And Spices As An Antipathogenic Agent Against Bacterial Pathogens Causing Seafood Spoilage	Santhakumari Sivasubramanian, Pondicherry University, Puducherry,Puducherry,605014	1920000
140.	Life Sciences	Exploiting The Cell Cycle Regulatory Role of CedA In Salmonella Typhi Pathogenesis And Drug Resistance	Kritika Singh, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	1920000
141.	Life Sciences	"Investigating The Metabolic Characteristics of Non-Small Cell Lung Cancer With Regards To P53 Status: An Attempt To Delineate The Metabolic Dependencies of Lung Cancer Cells"	Asad Ur Rehman, Dr B R Ambedkar Centre For Biomedical Research, New Delhi,Delhi,431004	1920000
142.	Life Sciences	Mass Spectrometry Based Evaluation of Glycated Proteome of Plasma And Follicular Fluid From Women With Polycystic Ovary Syndrome	Aditi Subhash Ambekar, National Chemical Laboratory, Pune,Maharashtra,411008	1920000
143.	Life Sciences	Nano-Engineered Drug Delivery System Of Antiretroviral Drugs For Prophylaxis Of HIV/AIDS	Purnima Rawat, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	1920000

144.	Life Sciences	Virus-Like Particles Of Kyasanur Forest Disease Virus (KFDV) Envelope Protein For Identification Of Viral Cell Receptors	Venkatanarayana Are, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	1920000
145.	Life Sciences	Tradeoffs in parental care behavior in response to risk of mortality among frogs of the genus <i>Nyctibatrachus</i> in the Western Ghats, India	Seshadri Ks, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	1920000
146.	Life Sciences	Effect of heavy metal pollution on antibiotic resistance (MBLs/ESBL) proliferation- a study.	Parveen Sultana, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	1920000
147.	Life Sciences	Genetically modified Bacterial strain mediated therapeutic approach for Pharmaco-resistance Epilepsy	Subodh Kumar, Panjab University, Chandigarh,Chandigarh,160014	1920000
148.	Life Sciences	Role of prostanoid synthesis related miRNAs in modulation of host environment for parasite survival in visceral leishmaniasis.	Sarita Kumari, All India Institute of Medical Sciences Patna, Patna,Bihar,801505	1920000
149.	Life Sciences	EXPLORING MYXOBACTERIAL SECONDARY METABOLITE BIOSYNTHETIC POTENTIAL USING NGS AND COMPARATIVE GENOMICS	Shilpee Pal, Institute of Microbial Technology, Chandigarh,Chandigarh,160036	1920000
150.	Life Sciences	Big data analysis to understand the etiology of colorectal cancer for affordable and accessible healthcare	Ajay Kumar Saw, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	1920000
151.	Life Sciences	Proteomic analysis of herbivory-induced defense response in <i>Zea mays</i> upon <i>Spodoptera litura</i> infestation	Sujata Singh, Hans Raj College, University of Delhi, Delhi,Delhi,110007	2236800
152.	Life Sciences	Developing durable broad-spectrum disease resistance in indica rice through CRISPR mediated genome editing and further characterization of the <i>Bsr-k1</i> loci, a putative susceptibility factor.	Donald James, Centre For Cellular and Molecular Biology, Hyderabad,TELANGANA,500007	2236800
153.	Life Sciences	Understanding transcriptional regulation of withanolide biosynthesis in <i>Withania somnifera</i>	Sucheta Singh, National Botanical Research Institute, Lucknow,Uttar Pradesh,226001	2131200
154.	Life Sciences	Molecular and physiological validation of specific Differentially Expressed Genes governing acquired tolerance in Rice ( <i>Oryza sativa</i> L.)	Jeeja Jaya Krishnan, University of Agricultural Sciences Bangalore, Bangalore,Karnataka,560065	2236800
155.	Life Sciences	Development of microbial cell factories for thermophilic bioconversion of Carbon dioxide to methane	Prathiviraj R, Pondicherry University, Puducherry,Puducherry,605014	2131200

156.	Life Sciences	Exploring the role of Chemokine Receptor 3.1 (Cxcr3.1) in zebrafish heart regeneration using genetic and chemical tools	Himanshu, Agharkar Research Institute, Pune,Maharashtra,411004	2236800
157.	Life Sciences	Exploring the role of post-translational modification of jasmonate signaling genes in low phosphate tolerance.	Chitra Bhatia, National Institute of Plant Genome Research, New Delhi,Delhi,110067	2236800
158.	Life Sciences	Elucidating the functional role of rice proteins that associate with XopF-TTSS effector of Xanthomonas oryzae pv. oryzae race 4 in the development of bacterial blight disease in rice	Aditya Kulshreshtha, Indian Agricultural Research Institute, New Delhi,Delhi,110012	2236800
159.	Life Sciences	Analysis of the delayed effects of acute stress on neuronal and astrocytic morphology in the amygdala versus hippocampus	Siddhartha Dutta, Institute For Stem Cell Biology & Regenerative Medicine, Bangalore,Karnataka,560065	2236800
160.	Life Sciences	Deciphering sRNAome and degradome of sorghum pistils before and after fertilization	Ira Vashisht, Jawaharlal Nehru University, New Delhi,Delhi,110067	2236800
161.	Life Sciences	Development of a CRISPR/Cas9 based genome editing tool for Physcomitrella patens to enable rapid gene discovery from Tnt1 moss mutant population.	Amey Jayant Bhide, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	2236800
162.	Life Sciences	TGF- $\beta$ signalling: its interplay with epigenetic modifiers and Hippo signalling post-retinal injury in mice and zebrafish.	Poonam Sharma, Indian Institute of Science Education and Research Mohali, Chandigarh,Chandigarh,140306	2131200
163.	Life Sciences	Exploring the mechanisms underlying the positioning of the hippocampus in the brain	Nidhi Satish Saikhedkar, Tata Institute of Fundamental Research, Mumbai, Mumbai,Maharashtra,400005	1920000
164.	Life Sciences	Molecular phylogeny, morphology and nutraceutical potentials (for edible members) of fleshy wild mushrooms in Kalatop-Khajjjar Wild Life Sanctuary of Himachal Pradesh	Dyutiparna Chakraborty, Botanical Survey of India Kolkata, Kolkata,West Bengal,700064	2236800
165.	Life Sciences	PROTEOMIC INVESTIGATION OF HUMAN PROTEIN PHOSPHATASES IN BREAST CANCER	Leena Yadav, Indian Institute of Technology Roorkee, Roorkee,UTTARAKHAND,247667	1920000
166.	Life Sciences	Understanding the Mechanism of Clearing Neurotoxic Protein Aggregates via Autophagy Modulation by Designed Nanochaperone	Nibedita Pradhan, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	2025600
167.	Life Sciences	Molecular characterization of c-di-GMP dependent signaling pathways in adhesion of probiotic Escherichia coli on human intestinal cells	Sathyanarayanan Jayashree, Madurai Kamaraj University, Madurai,Tamil Nadu,625021	2131200

168.	Life Sciences	“Uncovering of genomic regions associating with early vigor traits employing genome-wide association mapping in rice ( <i>Oryza sativa</i> L.)”	Gopalkrishna Murty, Indian Institute of Science Education and Research Tirupati, Tirupati,Andhra Pradesh,517507	2025600
169.	Life Sciences	Mining for compounds with pan-viral inhibitory potential	Swagatika Panda, Institute of Life Sciences, Bhubaneshwar,Orissa,750023	2131200
170.	Life Sciences	Structural-functional analysis of ubiquitin-conjugating enzyme E2-25K - Huntington-interacting protein 2	Gajendra Singh, National Centre For Biological Sciences, Bangalore,Karnataka,560065	2236800
171.	Life Sciences	Identification of unique transcript variants in early onset sporadic rectal cancer (EOSRC) from high throughput sequencing data	Asmita Gupta, Center For Dna Fingerprinting & Diagnostics, Hyderabad,TELANGANA,500001	2236800
172.	Life Sciences	Female Biased Sex Ratios in Social Spiders: When do Selfish Benefits Override Group Benefits?	Bharat Parthasarathi, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
173.	Life Sciences	Differential expression analysis of genes involved in regulatory role of ABA in nitric oxide-mediated protection of photosynthesis in wheat under abiotic stress	Noushina Iqbal, Jamia Hamdard, New Delhi,Delhi,110062	2236800
174.	Life Sciences	Elucidating the role of miRNA (MIR777) during male and female gametophyte development in <i>Arabidopsis thaliana</i>	Jayasreesatya Ramadevi S, Centre For Cellular and Molecular Biology, Hyderabad,TELANGANA,500007	2236800
175.	Life Sciences	Tuberculosis diagnosis and Treatment using high frequency ac magnetometer	Magesh J, Anna University Chennai, Chennai,Tamil Nadu,600025	2236800
176.	Life Sciences	“Role of a cold shock protein ‘PF3D7_0109600’ in gametocytogenesis of <i>Plasmodium falciparum</i> ”	Ankita Behl, Jawaharlal Nehru University, New Delhi,Delhi,110067	2236800
177.	Life Sciences	Assessment of genetic stability in regenerants of <i>P. corylifolia</i> by flow cytometer and enhanced accumulation of psoralen, using auxin nanoparticles and <i>Agrobacterium rhizogenes</i>	Vibha Pandey, Jamia Hamdard, New Delhi,Delhi,110062	2236800
178.	Life Sciences	Development of mucoadhesive formulation of first-line anti-tuberculosis drugs for the treatment of gastrointestinal tuberculosis (GI-TB)	Lubna Azmi, Central Drug Research Institute, Lucknow,Uttar Pradesh,226031	2131200
179.	Life Sciences	Phylogeography, taxonomic reassessment of the endemic Indian rock rats in the genus <i>Cremnomys</i> (Rodentia, Muridae) to understand evolutionary history, climate change impacts for conservation.	Brawin Kumar, Indian Institute of Science Education andResearch Tirupati, Tirupati,Andhra Pradesh,517507	2025600



180.	Life Sciences	Differential expression analysis on calcium signature genes in association with groundnut peg and pod developmental stages under moisture stress	Sai Rekha Kadirimangalam, International Crops Research Institute For The Semi Arid Tropics, Patancheru,Andhra Pradesh,502324	2236800
181.	Life Sciences	Characterization of Arabidopsis thaliana glutamate receptor-like ion channels by using FRET approaches	Ruphi Naz, Jamia Millia Islamia, New Delhi,Delhi,110025	2236800
182.	Life Sciences	Development of CRISPR/Cas9 based OsMED15 epiallele for increasing rice grain length	Alim Junaid, National Institute of Plant Genome Research, New Delhi,Delhi,110067	2236800
183.	Life Sciences	Understanding chronic persistence of leptospirosis: Identification of specific biomarkers of Leptospira biofilm for the detection of carrier status	K Vinod Kumar, National Institute of Veterinary Epidemiology andDisease Informatics, Bangalore,Karnataka,560064	2236800
184.	Life Sciences	Comparative structure modeling and simulation approach to improve the bio-physicochemical properties of industrial important enzyme Superoxide dismutase obtained from Potentilla atrosanguinea.	Vidya Rajendran, Institute of Himalayan Bioresource Technology, Palampur,Himachal Pradesh,176061	1920000
185.	Life Sciences	Studies on role of Olfml3 in microglia of normal and type 2 diabetes mice model	Shashank Kumar Maurya, Institute of Genomics and Integrative Biology, Delhi,Delhi,110007	2236800
186.	Life Sciences	Biosynthesis of chromium nanoparticles from tannery effluent by using marine phosphate solubilising bacteria and their applications on remediation of tannery effluent	Saranya, Central Leather Research Institute, Chennai,Tamil Nadu,600020	2236800
187.	Life Sciences	Role of pterostilbene in prevention of diabetes through modulation of autophagy in pancreatic islets	Geetika Garg, Savitribai Phule Pune University, Pune,Maharashtra,411007	2236800
188.	Life Sciences	Role of Ceramide metabolism in Phagosome maturation and motility.	Sayantani Ghosh, Tata Institute of Fundamental Research, Mumbai, Mumbai,Maharashtra,400005	2236800
189.	Life Sciences	Assessment of changes in gut and circulating microbiome during different stages of Liver fibrosis in rural South Indian population	Dinakaran V, Kovai Medical Center and Hospital, Coimbatore,Tamil Nadu,641014	2131200
190.	Life Sciences	Two Tails of the Same Coin: Homeostasis and Information Transfer in neurons and neuronal networks	Rahul Kumar Rathour, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	1920000
191.	Life Sciences	Identification of superior haplotype(s) for brown spot (BS) resistance in rice for genomics-assisted breeding	Shamshad Alam, International Crops Research Institute For The Semi Arid Tropics, Hyderabad,Telangana,502324	2236800

192.	Life Sciences	Viral triggers in under-five wheezers	Sherly Antony, Pushpagiri Institute of Medical Sciences and Research Centre, Pathanamthitta,Kerala,689101	2025600
193.	Life Sciences	Investigating the role of insulin receptor signaling in neuroprotection against poly(Q) disorders	Kritika Raj, South Asian University, New Delhi,Delhi,	2236800
194.	Life Sciences	Understanding the role of mitochondrial dynamics in rheumatic heart disease	Narmadha Ganapathy, Centre For Cellular and Molecular Biology, Hyderabad,Telangana,500007	2236800
195.	Life Sciences	Assessing the biological diversity and phylogenetic relationships of cyprinid- infecting myxosporeans inhabiting wetlands of Punjab using qPCR and eDNA technology	Aditya Gupta, Panjab University, Chandigarh,Chandigarh,160014	2131200
196.	Life Sciences	Heavy metal content in soil and drinking water and potential esophageal cancer risk assessment among population of Kashmir Valley	Gulzar Ahmad Bhat, Sher-I-Kashmir Institute of Medical Sciences Srinagar, Srinagar,Jammu And Kashmir,	2131200
197.	Life Sciences	Sustained delivery of nanoceria mediated clindamycin impregnated into aloevera based nanofibrous membrane for diabetic foot ulcer treatment	Kasturi Saha, University of Calcutta, Kolkata,West Bengal,700073	2236800
198.	Life Sciences	Exploring the role of autophagy in antimalarial drug resistance in Plasmodium	Sonal Gupta, National Institute of Malaria Research, New Delhi,Delhi,	2236800
199.	Life Sciences	Deciphering the role of Y-box binding (YBX) proteins, ABCB1 and ABCB5 in homotypic cell fusion and development of resistance in Glioblastoma Multiform (GBM)	Safiulla Basha Syed, Tata Memorial Hospital, Mumbai,Maharashtra,400012	2236800
200.	Life Sciences	To investigate the role of zebrafish calcium ion channels in the regulation host immunity during Mycobacterium marinum pathogenesis.	Jhasketan Badhai, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	2131200
201.	Life Sciences	Structural Elucidation of CRY1 C- terminus in the Regulation of Circadian Rhythm During Delayed Sleep Phase Disorder Using NMR spectroscopy	Priyatosh Ranjan, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
202.	Life Sciences	Probiotic bacteria for prevention of Der f 1 associated house dust mite (HDM) allergy	Priya Janardan Sarate, National Chemical Laboratory, Pune,Maharashtra,411008	2236800
203.	Life Sciences	Genetic modification of Chakhao amubi and Poireiton Chakhao (Oryza sativa L): two black scented rice cultivars from North-East India	Ramsong Chantre Nongpiur, North Eastern Hill University, Shillong,Meghalaya,793022	2025600

204.	Life Sciences	Assessment of diversity and species composition of bryophytes in Chail Wildlife Sanctuary (Himachal Pradesh) in relation to anthropogenic intervention and conservation strategies for potential and rare taxa.	Reesa Gupta, National Botanical Research Institute, Lucknow,Uttar Pradesh,226001	2131200
205.	Life Sciences	Targeting of HBx in Hepatitis B virus induced hepatocarcinogenesis and development of replicon based assay to study effect of mutation on replication	Geetanjali, All India Institute of Medical Sciences, Delhi, New Delhi,Delhi,110029	2236800
206.	Physical & Mathematical Sciences	Metal Chalcogenides As Superior Anode Materials For Rechargeable Sodium-Ion Batteries	Punita Srivastava, University of Delhi, Delhi,Delhi,110007	1920000
207.	Physical & Mathematical Sciences	Electric-Field Controlled Perpendicular Magnetic Anisotropy In Magnetolectric Multiferroic Material Based Magnetic Tunnel Junctions	Vijay Singh, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	1920000
208.	Physical & Mathematical Sciences	Lead-Free Layered Organometallic Halide Perovskites For Designing Efficient Light Emitters And Nonlinear Optical Devices	Avanendra Singh, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000
209.	Physical & Mathematical Sciences	Engineering of Amorphous Metal Oxides Thinfilm Transistors (TFTs) For High Performance Photo/Image Sensors	Soumen Dhara, Indian Institute of Science,Bangalore, Bangalore,Karnataka,560012	1920000
210.	Physical & Mathematical Sciences	Graphene-Inorganic Perovskite Composite Based Optoelectronic Devices	Mrinmay Das, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	1920000
211.	Physical & Mathematical Sciences	Supermassive Binary Black Hole Detection With The Help of Restarted Jet Activity, Jet Instability And Double-Peaked Emission Lines	Sumana Nandi, Tata Institute of Fundamental Research, Mumbai, Mumbai,Maharashtra,410504	1920000
212.	Physical & Mathematical Sciences	Estimation After Selection Under The Restriction On Parameter Space	Lakshmi Kanta Patra, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000
213.	Physical & Mathematical Sciences	Understanding Combinatorics On Words, Motivated By DNA Computing For Various Pseudo-Identity Functions, And Extended To Multi Dimension	Manasi Shrikant Kulkarni, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	1920000
214.	Physical & Mathematical Sciences	A Study On Relative Ageing of Life Distributions	Jisha Francis, Indian Institute of Science Education And Research Kolkata, Nadia,West Bengal,741246	1920000

215.	Physical & Mathematical Sciences	Existence And Uniqueness of "Extremal" Operator In Cowen-Douglas Class Over A Finitely Connected Bounded Planar Domain, Generalized Curvature Inequality For A Tuple of Operator In Cowen-Douglas Class And Higher Order Curvature Inequalities.	Md Ramiz Reza, Indian Institute of Science Education And Research Kolkata, Nadia, West Bengal, 741246	1920000
216.	Physical & Mathematical Sciences	Analysis of Silicon Thin Films For The Application of High Efficiency HIT Solar Cells	Mansi Sharma, Indian Institute of Technology Delhi, New Delhi, Delhi, 110016	1920000
217.	Physical & Mathematical Sciences	Development Of Ionic Liquid Comprising Li+-Ion Solid Electrolyte For Li+-Ion Batteries	Munesh Rathore, Jawaharlal Nehru University, New Delhi, Delhi, 110067	1920000
218.	Physical & Mathematical Sciences	Examining The Imprints Of Cosmic Magnetic Fields On Primordial Correlations	Sampurnanand, Indian Institute of Technology Madras, Chennai, Tamil Nadu, 600036	1920000
219.	Physical & Mathematical Sciences	Study of Radiation-induced Defects in Chalcogenide Glasses	Anupama Yadav, Central Glass & Ceramic Research Institute, Kolkata, West Bengal, 700032	1920000
220.	Physical & Mathematical Sciences	Efficient generation and manipulation of higher OAM modes using a passive device	Ameen P A Yasir, Indian Institute of Science Education and Research Mohali, Chandigarh, Chandigarh, 140306	2025600
221.	Physical & Mathematical Sciences	Finding descriptors for materials using Density Functional Theory and Machine Learning	Devina Sharma, Jawaharlal Nehru Centre For Advanced Scientific Research, Bangalore, Karnataka, 560064	2236800
222.	Physical & Mathematical Sciences	$\mathbb{K}$ -homogeneous operators on bounded symmetric domains and their subnormality, hyponormality, and spectral properties; Shields conjecture for Cowen-Douglas class operators; on certain decomposition of the tensor product of two Hilbert modules; and	Soumitra Ghara, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, 208016	1920000
223.	Physical & Mathematical Sciences	Fabrication of Resistive Switching Devices using Halide Perovskite Nanocrystals	Joydeep Datta, Indian Association For The Cultivation of Science, Kolkata, West Bengal, 700032	2236800
224.	Physical & Mathematical Sciences	Correlation between structural and magnetic properties of activated carbon and hard carbon and their use as supercapacitor electrodes in form of nanocomposites with inorganic ferromagnetic compounds	Nitish Yadav, Jawaharlal Nehru University, New Delhi, Delhi, 110067	2236800
225.	Physical & Mathematical Sciences	Fabrication of printable and flexible micro-supercapacitors using liquid phase exfoliated 2D materials	Siva Sankar Nemala, Indian Institute of Technology Gandhinagar, Gandhinagar, Gujarat, 382424	1920000

226.	Physical & Mathematical Sciences	Next-generation broadband, self-powered and flexible photodetectors for real-time response monitoring	Krishnendu Sarkar, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	2236800
227.	Physical & Mathematical Sciences	A KRS theory of quadrics dened by determinantal conditions	Joydip Saha, Indian Statistical Institute Kolkata, Kolkata,West Bengal,700108	2236800
228.	Physical & Mathematical Sciences	On Fractional Parabolic Problems Related to Dunkl Hardy Potential	Anoop V.P, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800
229.	Physical & Mathematical Sciences	E-theory and Baum--Connes conjecture for discrete quantum groups	Sayan Chakraborty, Indian Statistical Institute Kolkata, Kolkata,West Bengal,700108	2236800
230.	Physical & Mathematical Sciences	Study of breakup reactions involving weakly bound projectile nuclei at Coulomb barrier energies	Dipika B.Patel, Sardar Vallabhbhai National Institute of Technology, Surat,Gujarat,395007	2131200
231.	Physical & Mathematical Sciences	Application of wavelets for the solution of multidimensional partial differential equations on a torus	Vijay Kumar Patel, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1920000
232.	Physical & Mathematical Sciences	Multi-layered network: Complex patterns and their quantification	K Sathiyadevi, Bharathidasan University, Tiruchirappalli,Tamil Nadu,620024	2131200
233.	Physical & Mathematical Sciences	Highly efficient directly grown MoS <sub>2</sub> /graphene over stainless steel electrode using CVD for hydrogen production application	Kovendhan Manavalan, University of Madras, Chennai,Tamil Nadu,600005	2236800
234.	Physical & Mathematical Sciences	Large magnetoresistance with perpendicular anisotropy of MTJs for thermally stable and ultra-low power consuming next generation spintronic devices	Saravanan Lakshmanan, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2236800
235.	Physical & Mathematical Sciences	Synthesis and Testing of Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) and Carbon Nanotube Nanocomposite based Microwave Absorber for Stealth Technology	Deepti Chaudhary, Jawaharlal Nehru University, New Delhi,Delhi,110067	2236800
236.	Physical & Mathematical Sciences	Flavour Symmetric Grand Unified Theories for Neutrino Physics, Dark matter and Baryon asymmetry of the Universe	Mainak Chakraborty, Indian Association For The Cultivation of Science, Kolkata,West Bengal,700032	2236800
237.	Physical & Mathematical Sciences	Phenomenology with a Light eV-Scale Sterile Neutrino	Soumya C, Institute of Physics, Bhubaneshwar,Orissa,	1920000
238.	Physical & Mathematical Sciences	Distance Matrices of Graphs and Their Invariants	Projesh Nath Choudhury, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2236800

239.	Physical & Mathematical Sciences	Realization of Heusler Alloy based Spin Gapless Semiconductor and Topological Insulators for Spintronic Applications.	Surajit Ghosh, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, 721302	1920000
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