

Science & Engineering Research Board

SRG Projects Sanctioned in the Year 2019-20				
S.No	Discipline	Title	PI Details	Total Cost
1.	Chemical Sciences	Design and synthesis of small molecules to target nucleic acids structures for therapeutic applications: Targeting riboswitches for antibacterial therapy	Ambadas Bhagwanrao Rode, Regional Centre For Biotechnology, Faridabad,Haryana,121001	1932400
2.	Chemical Sciences	Probing the Electrochemical Events of Organic Molecules by Interference-free Electrochemical Surface-Enhanced Raman Spectroscopy (EC-SERS)	Tamilarasan Palanisamy, Central Electro Chemical Research Institute, Karaikudi,Tamil Nadu,630006	2635000
3.	Chemical Sciences	Anomalously new Generation of Stable and High Efficient Fluoranthene based Blue and White Phosphorescent Organic Light Emitting Diodes	Venkatramaiah Nutalapati, S R M University Kattankulathur, Kattankulathur,Tamil Nadu,603203	2508000
4.	Chemical Sciences	Development of Mixed Dimensional Lead (Pb ²⁺) Halide Perovskite (MDHP) Solar-Cells for Clean Fuel Production through Water Splitting	Satyajit Gupta, Indian Institute of Technology Bhilai, Bhilai,Chhattisgarh,492015	2739000
5.	Chemical Sciences	Electrochemical Reduction of CO ₂ using a Mechanically Interlocked Molecule (MIM) as a Catalyst	Raja Mitra, Indian Institute of Technology Goa, Ponda,Goa,403401	2706000
6.	Chemical Sciences	Unravelling the Dynamics of Excitation-Energy and Electron Transfer Processes in Artificial Photosynthetic Systems	Sarthak Mandal, National Institute of Technology Tiruchirappalli, Tiruchirappalli,Tamil Nadu,620015	2629000
7.	Chemical Sciences	Quantitative estimation of n→π* interaction in biomolecules: A quantum chemical calculation study	Sumit Kumar, Anugrah Memorial College, Gaya,Bihar,823001	1111000
8.	Chemical Sciences	Synthesis of New Bay-alkylated Terrylene Derivatives for Small Molecular and Polymeric Semiconductors	Suman Kalyan Samanta, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	3201000
9.	Chemical Sciences	Ribosomally synthesized and post-translationally modified peptide natural products: Mechanistic investigation of the antibiotic bottromycin biosynthetic pathway	Nilkamal Mahanta, Indian Institute of Technology Dharwad, Dharwad,Karnataka,580011	2904000
10.	Chemical Sciences	A Computational Investigation on the Role of Metals and Side Chain Mutations in Engineered Myoglobins	Garima Jindal, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	3223000

11.	Chemical Sciences	Folding, structure and engineering of proteins with a Hopf-link	Ishita Sengupta, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	3201000
12.	Chemical Sciences	Group 11 Metal-polyhydride Compounds for the Synthesis of Superatom Nanoclusters: Structural Characterization, Photophysical Properties, Catalytic and Biomedical Applications	Kiran Kumarvarma Chakrahari, S R M Institute of Science And Technology, Chennai,Tamil Nadu,603203	2299000
13.	Chemical Sciences	Molecular calcium hydrides supported by indenyl and fluorenyl ligands with a pendant N-heterocyclic carbene donor for olefin hydrogenation catalysis	Debabrata Mukherjee, Indian Institute of Science Education And Research Kolkata, Nadia,West Bengal,741246	2981000
14.	Chemical Sciences	Aqueous Na-Ion Batteries with Organic Anodes for Load-Leveling Applications	Anjan Banerjee, Presidency University, Kolkata,West Bengal,700073	2494000
15.	Chemical Sciences	Self-Calibrated And Drift-Free Electrochemical Biosensors Using Dual Frequency And Dual Reporter Approach	Pandiaraj Manickam, Central Electro Chemical Research Institute,Karaikudi,Tamil Nadu, 630006	2581000
16.	Chemical Sciences	Study Of Solar Cell From Quantum Thermodynamic Perspective	Arnab Ghosh, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2319960
17.	Chemical Sciences	Development of novel polymer based edible coating for food preservation	Ramesh Subramani, P S G R Krishnammal College For Women, Coimbatore,Tamil Nadu,641004	2019000
18.	Chemical Sciences	Light Assisted Selective Oxidation of Plant Biomass with Rational Design of Confined Metal Oxide/Nitride Based Photocatalyst	Astam Kumar Patra, University of Kalyani, Kalyani,West Bengal,741235	2464000
19.	Chemical Sciences	Development of a multi-scale modelling framework for non-covalent interactions	Mainak Sadhukhan, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	1989980
20.	Chemical Sciences	Developing Gold Carbene Catalysis For Cross-Coupling Chemistry	Tapas Ghosh, Maulana Abul Kalam Azad University of Technology, Kolkata,West Bengal,700064	2695000
21.	Chemical Sciences	Photo Mechanical Response of Anthracene Based Solid State Materials Driven by Reversible [4+4] Cycloaddition Reaction and Their Nonlinear Optical Properties.	Raghavender Medishetty, Indian Institute of Technology Bhilai, Bhilai,Chhattisgarh,492015	2640000
22.	Chemical Sciences	Dual Visible-light and Temperature Responsive Smart Hydrogels	Kamlesh Kumar, Central Scientific Instruments Organisation, Chandigarh,Chandigarh,160030	2149000
23.	Chemical Sciences	Synthesis of highly stable Zr-based mixed-linker metal-organic	Himanshu Aggarwal, Birla Institute of Technology and Science Pilani-Hyderabad,	2198183

		frameworks (MOFs) for humidity control and gas separation.	Hyderabad,Telangana,500078	
24.	Chemical Sciences	Semisynthetic Approach to Focussed Libraries of Gingerol, Shogaol, and Nimbin Analogs: Synthesis, Structure-Activity Relationship, Mechanism of Inhibition and Biological Screening	Gopinath Pushparathinam, S R M Institute of Science and Technology, Chennai,Tamil Nadu,603203	1991000

25.	Chemical Sciences	Cationic 4(Pi)-Electrocyclization Cascade for the Expedient Synthesis of Biologically Relevant Pyrrolidine Derivatives with Multiple Stereogenic Centers	Rishikesh Narayan, Indian Institute of Technology Goa, Ponda,Goa,403401	2645000
26.	Chemical Sciences	Multifunctional Cu ₂ O@Cu ₂ Se Nanostructures for Selective Electrochemical Reduction of CO ₂ to Value Added Products	Govindhan Maduraiveeran, S R M University Kattankulathur, Kattankulathur,Tamil Nadu,603203	2145000
27.	Chemical Sciences	N-heterocycle based indolizidine natural products and analogues for anticancer drugs development	Bibhuti Bhusan Parida, Berhampur University, Berhampore,West Bengal,760007	2766373
28.	Chemical Sciences	Exploring Chemotactic and Catalytic Properties of Oligonucleotides for Designing of Self-powered Nanomotors	Subhabrata Maiti, Indian Institute of Science Education and Research Mohali, Chandigarh,Chandigarh,140306	2780000
29.	Chemical Sciences	Effect of External Electric Field on the Electronic Structure and Reactivity of Metallocarbene Complexes	Dibyendu Mallick, Presidency University, Kolkata,West Bengal,	2431000
30.	Chemical Sciences	Optimizing Luminescent Carbon Dots for Photocatalytic Solar Water Splitting: A Metal Co-Catalyst Free Approach for Solar Fuel Generation	Santanu Bhattacharya, Indian Institute of Science Education and Research Berhampur, Ganjam,Orissa,760010	3179000
31.	Chemical Sciences	Light-induced Switchable Molecular Magnets based on 3d-5d Heterometallic Assemblies	Abhishake Mondal, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2541000
32.	Chemical Sciences	Modulating peptide receptor engineering strategy for cancer biomarker detection	Anupam Bandyopadhyay, Indian Institute of Technology Ropar, Ropar,Punjab,140001	2391000
33.	Chemical Sciences	Plasmonic Janus Nanoparticle for Photocatalysis	Vishal Govindrao, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	3201000
34.	Chemical Sciences	Discovery of Efficient Nano-Porous Materials for Utilization of Expelled Toxic Gases from Coal-Fired Power Plants	Renjith Sasimohanan Pillai, S R M Institute of Science and Technology, Chennai,Tamil Nadu,603203	1870000
35.	Chemical Sciences	Design of modular peptide nanotubes platforms by the self-assembly of shortest helical building blocks for application as ion channel mimic	Sudipta Mondal, National Institute of Technology Durgapur, Durgapur,West Bengal,713209	2728000
36.	Chemical Sciences	Structure-Properties Relationships of Sodium Ion Electrolytes Based on Hydrophobic Ionic Liquids and Deep Eutectic Solvents	Sudhir Kumar Das, North Bengal University, Darjiling,West Bengal,734430	2810000
37.	Chemical Sciences	Development and Application of Multiscale Modeling for Complex Biological Systems and Drug Design	Pandian Sokkar, Chettinad Academy of Research and Education, Chennai,Tamil Nadu,603103	2101000

38.	Chemical Sciences	Catalytic Installation of Stereodefined C-F Bond	Sudipta Raharoy, Indian Institute of Technology Delhi, New Delhi, Delhi, 110016	3311000
39.	Chemical Sciences	“Development and Applications of NMR methods for Qualitative and Quantitative analysis of Curcuminoids”	Sachin Rama Chaudhari, Central Food Technological Research Institute, Mysore, Karnataka, 570020	2365000
40.	Chemical Sciences	Glucose-responsive DNA hydrogels for insulin delivery	Suchetan Pal, Indian Institute of Technology Bhilai, Bhilai, Chhattisgarh, 492015	2723000
41.	Chemical Sciences	Supported Single-Manganese-Atom Electrocatalysts: Understanding Manganese-Support Interactions, Enhanced Stability, and Application as Oxygen Electrodes in Electrochemical Devices under Acidic Electrolytic Conditions	Arshad Aijaz, Rajiv Gandhi Institute of Petroleum Technology, Rae Bareilly, Uttar Pradesh, 229304	2365000
42.	Chemical Sciences	Bifunctional Iron Catalysts for Acceptorless Dehydrogenation Reactions: Towards the Development of Environmentally Friendly Catalysts	Arup Sinha, Vellore Institute of Technology, Vellore, Tamil Nadu, 632014	2717000
43.	Chemical Sciences	Development of New Asymmetric Transformations via Synergistic Photoredox-Organocatalysis	Pankaj Chauhan, Indian Institute of Technology Jammu, Jammu, Jammu And Kashmir, 181221	2667000
44.	Chemical Sciences	Nature-Inspired Smart Surfaces with Extreme Wettability for Separation and Solute Transport	Vickram Jeet Singh, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, 144011	2546000
45.	Chemical Sciences	Environmental risk assessment of plastics additives: Analytical methodologies, comparative studies and degradation by engineered nanomaterials	Manviri Rani, Malviya National Institute of Technology, Jaipur, Rajasthan, 302017	3033000
46.	Chemical Sciences	Investigation of Decomposition Pathways for Water-/Proton Reduction Molecular Catalysts: Rational Design of Longer-Lived Catalysts with Earth-Abundant Transition Metals	Shivnath Mazumder, Indian Institute of Technology Jammu, Jammu, Jammu And Kashmir, 181221	2134000
47.	Chemical Sciences	Promoting Water Oxidation Reaction with Electrochemically Synthesized Ultrathin Layered Double Hydroxide Nanosheets	Arindam Indra, Indian Institute of Technology (BHU), Varanasi, Uttar Pradesh, 221005	2651000
48.	Chemical Sciences	Nitrogen-doped Renewable Carbon Supported Cobalt Catalyst for Selective Hydrogenation of Arenes and Heteroarenes	Kishore Natte, Indian Institute of Petroleum, Dehradun, Uttarakhand, 248005	2149000
49.	Chemical Sciences	Silylium ion Induced Multi Functionalization and Its Applications to Total Synthesis	Chinmoy Kumar Hajra, Indian Institute of Technology Delhi, New Delhi, Delhi, 110016	3310000

50.	Chemical Sciences	Design and Syntheses of Diradicaloid Cyclohepta[def]fluorene Derivatives: Closed-Shell or Open-Shell?	Soumyajit Das, Indian Institute of Technology Ropar, Ropar,Punjab,140001	2783000
51.	Chemical Sciences	Uncovering the contribution of the AFD neuron specific genes to heat shock response dynamics	Rati Sharma, Indian Institute of Science Education and Research Bhopal, Bhopal,Madhya Pradesh,462023	2640000
52.	Chemical Sciences	Synthesis of Reusable Metal-free Photocatalysts for Visible Light Aided Generation of Benzyne Intermediate: A Key Route of C-C & C-hetero-atom Bond Formation	Sarifuddin Gazi, University of Science and Technology, Ri Bhoi,Meghalaya,793101	2302250
53.	Chemical Sciences	Development of long-lived multi-photon luminescent probes based on transition metal complexes for biological applications	Monima Sarma, Koneru Lakshmaiah Education Foundation, Guntur,Andhra Pradesh,522502	2189000
54.	Chemical Sciences	Development of hematite based sustainable floating photocatalyst for transformation of atrazine and bisphenol A	Avishek Saha, Central Scientific Instruments Organisation, Chandigarh,Chandigarh,160030	2210397
55.	Chemical Sciences	Exploring the anticancer potential of high-valent organometallic Rhenium(V)-oxo piano-stool complexes	Malay Patra, Tata Institute of Fundamental Research, Mumbai, Mumbai,Maharashtra,	2455560
56.	Chemical Sciences	Developing Superior Noble Metal-Free Oxygen Evolution Catalyst for Electrochemical Water Oxidation and Metal-Air Battery	Asha Gupta, Indian Institute of Technology (Bhu), Varanasi,Uttar Pradesh,221005	2464000
57.	Chemical Sciences	Merging of Visible Light Photoredox and Bio-inspired Catalysis for C-H Functionalizations	Sujoy Rana, North Bengal University, Darjiling,West Bengal,734430	2708499
58.	Chemical Sciences	Molecular Devices Fabrication for Charge-Transport Measurements: Replacing Metal Electrodes by Carbon Electrode	Prakash Chandra Mondal, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2673000
59.	Earth & Atmospheric Sciences	International Symposium on Optomechatronic Technologies	Sayantana Sarkar, Indian Institute of Science Education and Research Kolkata, Nadia,West Bengal,741246	2932560
60.	Earth & Atmospheric Sciences	Seismic analysis of sub-seafloor gas migration over an Arctic methane hydrate retreat zone	Sudipta Sarkar, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	2427560
61.	Earth & Atmospheric Sciences	A numerical study of submesoscale processes driven by river plumes in the Bay of Bengal region	Vamsi Krishna Chalamalla, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2617560

62.	Earth & Atmospheric Sciences	Mineralogical, Fluid Inclusion and Geochemical Studies of Gold Mineralization in and around Girar, Lalitpur District, Uttar Pradesh	Ajit Kumar Sahoo, Banaras Hindu University, Varanasi,Uttar Pradesh,221005	2889000
63.	Earth & Atmospheric Sciences	Investigation of Dry Air Intrusion over the Arabian Sea and Its Implications on Indian Summer Monsoon	Sandeep Sukumaran, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	1465560
64.	Earth & Atmospheric Sciences	Methane Emission from Tropical Aquatic Networks: Elucidating the underpinning mechanisms and landscape-level drivers	Shoji D Thottathil, S R M University Ap, Guntur,Andhra Pradesh,522502	3022620
65.	Earth & Atmospheric Sciences	Tracing the impact of Late Cenozoic climatic transitions on the erosion rates of Himalaya	Sanjay Kumar Mandal, Indian Institute of Science Education and Research Kolkata, Nadia,West Bengal,741246	2959280
66.	Earth & Atmospheric Sciences	Stable isotopic and molecular composition of vegetation and soil organic matter across the precipitation gradient of the Western Ghats.	Shreyas Managave, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	3300000
67.	Earth & Atmospheric Sciences	Construction of a Reduced Model for Investigating Dispersion of Pollutants by Atmospheric Wave Turbulence in the Atmospheric Boundary Layer	Amrik Sen, Thapar Institute of Engineering & Technology, Patiala,Punjab,147004	3291520
68.	Earth & Atmospheric Sciences	Interactive Desktop Tool for Nonstationary Intensity-Duration-Frequency Curves under Climate Change	Roshan Karan Srivastav, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	1647000
69.	Earth & Atmospheric Sciences	Development of Wavelength modulated tuneable diode laser spectrometer for atmospheric gas sensing and quantification	Vijayanand Chandrasekaran, Vit University, Vellore,Tamil Nadu,632014	2498000
70.	Earth & Atmospheric Sciences	A Non-Newtonian Fluid Model For The Dissipation Rate Of Interfacial Waves	Girish Kumar Rajan, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	2038520
71.	Earth & Atmospheric Sciences	Glacial chronology, Palaeoclimatic reconstruction and their climatic implications in the Darma Valley, Kumaon Himalaya, India.	Pinkey Bisht, Wadia Institute of Himalayan Geology, Dehradun,Uttarakhand,248001	2411400
72.	Earth & Atmospheric Sciences	Ground Motion Modelling in Active Shallow Crustal Regions Across India	Sanjay Singh Bora, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	2627820
73.	Earth & Atmospheric Sciences	Study of variation in the flow hydrodynamics around a circular bridge pier in a sand mined stream channel	Vishal Deshpande, Indian Institute of Technology Patna, Patna,Bihar,801103	2726520

74.	Engineering Sciences	Design and manufacturing of miniature Kolsky bar or Split Hopkinson Pressure Bar (SHPB) setup to characterize the very high strain rate deformation behavior of metals	Eswara Prasad Korimilli, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	3091000
75.	Engineering Sciences	Hydrological Drought Co-occurrence Risk Analysis over Large River Basins in India	Poulomi Ganguli, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	1796880
76.	Engineering Sciences	Development of Electrospun Membranes with Graded Hydrophobicity for Membrane Distillation	Noel Jacob Kaleekkal, National Institute of Technology Calicut, Calicut,Kerala,673600	2644400
77.	Engineering Sciences	Development of Direct Current Hybrid Circuit Breaker for DC grid applications	Satish Naik Banavath, Indian Institute of Technology Dharwad, Dharwad,Karnataka,580011	3177360
78.	Engineering Sciences	Designing novel 2-D magnetic storage devices using van der Waals heterostructures	Abhilash Ravikumar, Amrita School of Engineering (Amrita Vishwa Vidyapeetham), Bangalore,Karnataka,560035	3021700
79.	Engineering Sciences	Predicting and preventing aeroelastic flutter using the concepts of synchronization and amplitude death	Venkatramani Jagadish, Shiv Nadar University, Gautambudh Nagar,Uttar Pradesh, 203207	1883100
80.	Engineering Sciences	Designing of Potential Adsorbents via Molecular Modelling and Simulations for the High Temperature Carbon Dioxide Capture	Angan Sengupta, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	2195220
81.	Engineering Sciences	Development of a comprehensive methodology to improve road traffic safety in Indian urban roadways based on advanced statistical techniques	Bandhan Bandhu Majumdar, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	1139880
82.	Engineering Sciences	Linkage of Large Scale Ocean-Atmospheric Phenomena on Hydroclimatic Extremes in India.	Sarmistha Singh, Indian Institute of Technology Palakkad,Palakkad,Kerala,678557	1973180
83.	Engineering Sciences	Development of Cost-effective, Low-Power, Flexible Non-Volatile Memory Devices using Nano-Crossbar Arrays Organic Resistive Switching Memories (Flex-ORRAM)	Debashis Panda, National Institute of Science and Technology Orissa, Ganjam,Orissa,761008	2753870
84.	Engineering Sciences	Experimental and numerical studies of fracture in Nanoglasses	Indrasen Singh, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	3117600
85.	Engineering Sciences	Investigations into bio-ceramic based poly (D, L-lactide) composite scaffolds using stereo lithography	Varun Sharma, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	2605900

86.	Engineering Sciences	Production of a nanocomposite sealant from aquatic-derived waste materials	Shihabudheen Mundampra Maliyekkal, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	3100900
87.	Engineering Sciences	Proximal Femoral Locking Plates (PFLP): Biomechanical Exploration of Design Variants for North Eastern (NE) Population	Souptick Chanda, Indian Institute of Technology Guwahati,Guwahati,Assam,781039	2297270
88.	Engineering Sciences	Application of Nanoparticles in ESP for Inactivation of Microorganisms and Degradation of VOCs for Air Purification	Manoranjan Sahu, Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	2954600
89.	Engineering Sciences	Quasicontinuum Method for Amorphous Materials	Amuthan Arunkumar Ramabathiran, Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	1179810
90.	Engineering Sciences	Evolution and Influence of Coherent Structures on Entrainment in a Transient Diabatic Plume – Implications for Cumulus Cloud Flows	Samrat Rao, Indian Institute of Technology Jammu, Jammu,Jammu And Kashmir,181221	1038400
91.	Engineering Sciences	Project title: Developing Physics Guided Super-Resolution Approach and Evaluation Strategies for Downscaling Earth System Model Outputs	Udit Bhatia, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	2211230
92.	Engineering Sciences	Deep Neural Architecture for Multimodal and Multilingual Sign Language Translation and Recognition	Elakkiya R, Sastra University, Thanjavur,Tamil Nadu,613401	1450900
93.	Engineering Sciences	Design of Single-band and Dual-band Transmission-type Linear to Circular Polarization Converter	Kushmanda Saurav, Indian Institute of Technology Jammu, Jammu,Jammu And Kashmir,181221	2824930
94.	Engineering Sciences	Decentralized Domestic Wastewater Treatment of Small Communities Using Multistage Constructed Wetlands	Sanak Ray, Central Salt & Marine Chemicals Research Institute, Bhavnagar,Gujarat,364002	1698880
95.	Engineering Sciences	Experimental Investigation on Stability of Impregnated Fluid Phase at Complex Multiphase Interface of Fluid Impregnated Surface	Arindam Das, Indian Institute of Technology Goa, Ponda,Goa,403401	3089730
96.	Engineering Sciences	Design And Development Of Cnt Reinforced Ceramic Composite Scaffold By Additive Manufacturing Technique For Bone Tissue Regeneration	Renold Elsen S, Vit University, Vellore,Tamil Nadu,632014	3114690
97.	Engineering Sciences	Design and Development of Cost-Effective Compact Millimeter-Wave Antennas for 5G Wireless Communication	Saptarshi Ghosh, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	3298470
98.	Engineering Sciences	Kinematics and rheology of granular flow in a multi-outlet silo	Ashish Bhateja, Indian Institute of Technology Goa, Ponda,Goa,403401	3214110

99.	Engineering Sciences	Performance Evaluation and Optimization of UAV-Enabled Cellular Communications	Pankaj Kumar Sharma, National Institute of Technology Rourkela, Rourkela,Orissa,769008	1350760
100.	Engineering Sciences	Encapsulation of Bioactive compound through Extrusion Process to Develop Ready-to-Eat Functional Snacks	Sushil Kumar Singh, National Institute of Technology Rourkela,Rourkela,Orissa,769008	2871000
101.	Engineering Sciences	High-Altitude Platform Station based Hybrid FSO/RF Communication for Future Satellite Communication Systems	Swaminathan R, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	1400020
102.	Engineering Sciences	A combined effect of complexation behavior of biopolymers and self-assembly behavior of oppositely charged particles (OCPs) to influence the stabilization of water-in-water (W/W) Pickering emulsion	Manigandan Sabapathy, Indian Institute of Technology Ropar, Ropar,Punjab,140001	3178020
103.	Engineering Sciences	Ultra-precision machining of brittle materials – Material micro-structural perspective and cutting edge radius effect	Afzaal Ahmed, Indian Institute of Technology Palakkad,Palakkad,Kerala,678557	3165190
104.	Engineering Sciences	Battery-free Chemical-Sensor Interfaced Radiofrequency Identification (RFID) tag for Improved Food Safety and Quality, and Waste Reduction in the Indian Food Supply Chain	Kanishka Bhunia, Indian Institute of Technology Kharagpur,Kharagpur,West Bengal, 721302	3254830
105.	Engineering Sciences	Development of Simulation Software for Spintronic Device and Circuit Simulation	Shivam Verma, Indian Institute of Technology (Bhu), Varanasi,Uttar Pradesh,221005	1613600
106.	Engineering Sciences	Impact of Lateral Straggle on the Logic Gates, SRAM, and Ring Oscillator in Silicon on Insulator (SOI) Tunnel FET	Rajesh Saha, Vit Ap University, Guntur,Andhra Pradesh,522034	2307800
107.	Engineering Sciences	Nanocavity-in-Body Tunnel Field Effect Transistor Architectures for Low Power Sensing Applications	Rupam Goswami, Birla Institute of Technology and Science Pilani, Pilani,Rajasthan,333031	1049400
108.	Engineering Sciences	Rational design of non-stoichiometric transition metal compounds	Satyesh Kumar Yadav, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	1764400
109.	Engineering Sciences	A study of blast wave impact on helmet-head assembly to mitigate traumatic brain injury	Alagappan Ponnalagu, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2943600
110.	Engineering Sciences	Optimization of low cost lab-on-chip platforms for the development of biomedical applications	Matta Durga Prakash, V R Siddhartha Engineering College, Vijayawada,Andhra Pradesh,520007	2344180

111.	Engineering Sciences	Template based fabrication for development of various micro nano structured surfaces and their characterization	Arjyajyoti Goswami, National Institute of Technology Durgapur, Durgapur, West Bengal, 713209	2393680
112.	Engineering Sciences	Interpretation Of Tuberculin Reaction Using Medical Photography And Computer Aided Diagnosis	Jabez Christopher, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad, Telangana, 500078	994400
113.	Engineering Sciences	Modeling, simulation, and fabrication of MgZnO/ZnO heterostructures for biosensor application.	Rohit Singh, Shiv Nadar University, Gautambudh Nagar, Uttar Pradesh, 203207	2589110
114.	Engineering Sciences	Integrated Magnetolectric Energy Harvesting and Wireless Power Transfer Devices for Wearable and Implantable Applications	Dhiman Mallick, Indian Institute of Technology Delhi, New Delhi, Delhi, 110016	3297470
115.	Engineering Sciences	Anisotropy and SGS models in LES of high-magnetic Reynolds number MHD turbulence	Abhilash Joseph Chandy, Indian Institute of Technology Bombay, Mumbai, Maharashtra, 400076	2196610
116.	Engineering Sciences	Assessment of Mixed-Matrix membrane system for CO ₂ separation for upgradation of Biogas to Bio-Compressed Natural Gas (Bio-CNG).	Bhanuvaradhanreddy Kuncharam, Birla Institute of Technology and Science Pilani, Pilani, Rajasthan, 333031	2446770
117.	Engineering Sciences	Fair and Explainable Artificial Intelligence	Abir Das, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, 721302	3193630
118.	Engineering Sciences	Development of Fabrication Feasible PERC Solar Cells for More Than 23% Conversion Efficiencies Using the Process and Device Simulations	Rahul Pandey, Chitkara University Chandigarh, Patiala, Punjab, 140401	2426340
119.	Engineering Sciences	Development of photo-triboelectric nanogenerator (PTENG) for sustainable green energy harvesting from mechanical motion and solar energy.	Ankur Goswami, Indian Institute of Technology Delhi, New Delhi, Delhi, 110016	3187690
120.	Engineering Sciences	Development of an indigenous tool for the enhancement of medical images using deep neural networks	Sudeep Pv, National Institute of Technology Calicut, Calicut, Kerala, 673600	2934630
121.	Engineering Sciences	Analytical and Experimental Investigation on Frequency Dependent Linear Control Algorithm for Performance Enhancement of Real Life Civil Structures under Random Excitation	Sanjukta Chakraborty, Indian Institute of Technology Palakkad, Palakkad, Kerala,	2156240
122.	Engineering Sciences	Cooperative Nonlinear Guidance Strategies for Simultaneous Interception with Finite-Time Convergence	Shashi Ranjan Kumar, Indian Institute of Technology Bombay, Mumbai, Maharashtra, 400076	1859880

123.	Engineering Sciences	Design of high isolation integrated mixer for mm-Wave.	Darshak Kishorchandra Bhatt, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	2971880
124.	Engineering Sciences	Sustainable Cutting fluid Technology for Micro Deep-hole Drilling	Soham Sanjeev Mujumdar, Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	3080820
125.	Engineering Sciences	Electricity assisted synthesis of long chain fatty acids in a novel hybrid DF-MES reactor from organic waste	Pritha Chatterjee, Indian Institute of Technology Hyderabad, Hyderabad,Telangana,502205	2556400
126.	Engineering Sciences	Physico-mechanical response of rocks under varied thermal environments	Nikhil Ninad Sirdesai, Visvesvaraya National Institute of Technology, Nagpur,Maharashtra,440010	3146000
127.	Engineering Sciences	Development of a Pellet and Filament Form Integrated Multi-Material Co-Extruder System for Improved Additive Manufacturing Process	Mohammad Taufik, Maulana Azad National Institute of Technology, Bhopal,Andhra Pradesh,462051	1763650
128.	Engineering Sciences	Estimation of high spatiotemporal land surface temperature using multi-sensor approach over India	Eswar Rajasekaran, Indian Institute of Technology Bombay, Mumbai,Madhya Pradesh,400076	2414390
129.	Engineering Sciences	Quadratic boost converter based multi-input power converter interface for renewable applications	Olive Ray, Indian Institute of Technology Bhubaneswar, Bhubaneshwar,Bihar,751013	2980020
130.	Engineering Sciences	Ferrofluid actuated liquid dispenser for wearable microfluidic drug delivery system	Sandip Sarkar, Jadavpur University, Kolkata,Orissa,700032	2165900
131.	Engineering Sciences	Assistive Learning Device for Children with Hearing Loss	Vinal Patel, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior,West Bengal,474015	1077340
132.	Engineering Sciences	Effective anti-icing strategies for power transmission cables and pipelines using macro structured superhydrophobicity	Harikrishnan A R, Birla Institute of Technology and Science Pilani, Pilani,Madhya Pradesh,333031	3017020
133.	Engineering Sciences	Benchmarking of Disinfection by-Products in Drinking Water Supply System: Assessment, Modeling and in-situ Control Measures	Partha Sarathi Ghosal, Indian Institute of Technology Kharagpur, Kharagpur,Rajasthan,721302	2888050
134.	Engineering Sciences	Design and development of a hybrid DC bus power supply with the high voltage ride through capability and the high fault tolerance.	Rupesh Ganpatrao Wandhare, Indian Institute of Technology Hyderabad, Hyderabad,West Bengal,502205	2952180
135.	Engineering Sciences	Investigations of chugging phenomenon in direct contact condensation towards mitigation of the pressure amplitude and oscillations	Parmod Kumar, Indian Institute of Technology Mandi, Mandi,Telangana,175005	3087650

136.	Engineering Sciences	Fabrication of carbon soot based reusable and robust nanofiber membranes for effective oil-water separation	Manohar Kakunuri, National Institute of Technology Warangal, Warangal,Himachal Pradesh,506004	2708510
137.	Engineering Sciences	Epidemic control on complex networks	Kundan Kandhway, Indian Institute of Science Education and Research Bhopal, Bhopal,Telangana,462023	1819320
138.	Engineering Sciences	Go with the Flow! Practical Hardware Support for Efficient Concurrency Analyses	Swarnendu Biswas, Indian Institute of Technology Kanpur, Kanpur,Madhya Pradesh,208016	825000
139.	Engineering Sciences	Development of Signal Processing Framework for Uplink/Downlink of Multi-Cell Multi-User Massive MIMO-FBMC-OQAM based 5G Communication System.	Himanshu Bhusan Mishra, Indian Institute of Technology (Indian School of Mines), Dhanbad,Uttar Pradesh,826004	1302400
140.	Engineering Sciences	Study of the Effects of Stress-State and Strain-Rate on Constitutive Response of Polymer Gels via Experiments and Continuum Mechanics Modeling	Abir Bhattacharyya, Indian Institute of Technology Jodhpur, Jodhpur,Jharkhand,342011	3060480
141.	Engineering Sciences	Efficient High-Lift Turbine Blade Designs exploiting the Surface Roughness: Experimental and Numerical Campaign	Nagabhushana Rao Vadlamani, Indian Institute of Technology Madras, Chennai,Rajasthan,600036	3240030
142.	Engineering Sciences	An Experimental and Theoretical Investigation of the Combustion Kinetics of Lemon Peel Oil - a novel potential biofuel for jet engines - in a Premixed Laminar Flame.	Sayak Banerjee, Indian Institute of Technology Hyderabad, Hyderabad,Tamil Nadu,502205	2620730
143.	Engineering Sciences	Automated Detection and Classification of Traumatic Brain Injuries in Head CT Images	Subrahmanyam Venkatarams Gorthi, Indian Institute of Technology Tirupati, Tirupati,Telangana,517506	2423850
144.	Engineering Sciences	Design and Development of Passive Underwater Surveillance System for Complex Environment Condition	Badri Narayan Subudhi, Indian Institute of Technology Jammu, Jammu,Andhra Pradesh,181221	2216110
145.	Engineering Sciences	A feasibility study on aquifer storage of water by artificial recharge in and around Punjab region, India	Sayantana Ganguly, Indian Institute of Technology Ropar, Ropar,Assam,140001	3249400
146.	Engineering Sciences	Hybrid Scaffold Manufacturing using Surface Modification of 3D-Printed hydrophobic Scaffolds	Himansu Sekhar Nanda, Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing, Jabalpur,Punjab,482005	2325400
147.	Engineering Sciences	Energy-efficient nanoelectronics using giant spin-orbit materials	Kuntal Roy, Indian Institute of Science Education and Research Bhopal, Bhopal,Tamil Nadu,462023	3131930

148.	Engineering Sciences	Design and development of lightweight and crashworthy hierarchical materials and structures	Pattabhi Ramaiah Budarapu, Indian Institute of Technology Bhubaneswar, Bhubaneshwar, Madhya Pradesh, 751013	2962550
149.	Engineering Sciences	Experimental investigation of thermal cracking due to rewetting phenomena during metal quenching process	Ashok Kumar Nallathambi, National Institute of Technology Tiruchirappalli, Tiruchirappalli, Orissa, 620015	3051180
150.	Engineering Sciences	Design and development of an expert system for updating rainfall Intensity-Duration-Frequency curves under climate change and non-stationarity	Agilan V, National Institute of Technology Calicut, Calicut, Tamil Nadu, 673600	1862300
151.	Engineering Sciences	Development of Contactless Vital Sign Monitoring System using PPG based on Smartphone Camera	Hemant Sharma, National Institute of Technology Rourkela, Rourkela, Kerala, 769008	1502550
152.	Engineering Sciences	Thermal Transport Beyond Fourier's Law of Heat Conduction	Dipanshu Bansal, Indian Institute of Technology Bombay, Mumbai, Orissa, 400076	3194400
153.	Engineering Sciences	Low voltage MEMS actuation using Negative Capacitance	Arvind Ajoy, Indian Institute of Technology Palakkad, Palakkad, Maharashtra, 678557	2773690
154.	Engineering Sciences	Designing origami-based metamaterials with low frequency elastic bandgaps	Phanisri Pradeep Pratapa, Indian Institute of Technology Madras, Chennai, Kerala, 600036	3253930
155.	Engineering Sciences	Design and Development of 4D Printing for Fabrication of Multi-material and Multi-functionality	Somashekara Ma, Indian Institute of Technology Dharwad, Dharwad, Tamil Nadu, 580011	2919400
156.	Engineering Sciences	Investigation on Methods to Improve Transient Response of Microgrids Using Virtual Inertia Mechanisms for Seamless Synchronization with Utility Grid	Venkatapavankumar Yellapragada, Vellore Institute of Technology, Vellore, Karnataka, 632014	3282400
157.	Engineering Sciences	Development of multi-operational microwave heating setup for the near net shape material processing	Harpreet Singh, Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing, Jabalpur, Tamil Nadu, 482005	2204040
158.	Engineering Sciences	Development of a scanning probe tool for micro- and nano-scale patterning	Santanu Talukder, Indian Institute of Science Education and Research Bhopal, Bhopal, Tamil Nadu, 462023	3111840
159.	Engineering Sciences	Design and Development of 'Fast Charging' Next-Generation Battery System and its Advanced Electronic Diagnostics	Sujith Kalluri, S R M University Ap, Guntur, Madhya Pradesh, 522502	2958450

160.	Engineering Sciences	Real time monitoring and control of cooling rates in laser based additive manufacturing for ensuring microstructural homogeneity, controlling dimensional accuracy, micro-cracks and delamination, and investigating their effects on the mechanical properties	Muvvala Gopinath, Indian Institute of Technology Hyderabad, Hyderabad,Telangana,502205	3084400
161.	Engineering Sciences	Physics-based digital twin for automotive brakes	Sriram Sundar, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	3267000
162.	Engineering Sciences	Fatigue behavior of friction stir welded dissimilar (austenitic stainless steel - aluminum) joints in a hydrogen atmosphere.	Jayaprakash Murugesan, Indian Institute of Technology Indore, Indore,Madhya Pradesh,452011	2871000
163.	Engineering Sciences	Compact Modeling for Quasi-Ballistic Transport in GAA MOSFET and Design of Radiation Hardened SRAM Array	Gaurav Kaushal, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior,Madhya Pradesh,474015	2821170
164.	Engineering Sciences	Turbulent Boundary Layer Combustion for Propulsion and Fire Science Applications: Theoretical, Experimental and Computational Studies	Ajay Vikram Singh, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2981000
165.	Engineering Sciences	Snakeskin-Inspired Smart Surfaces for Man-Made Materials Interacting with Soil	Prashanth Vangla, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3147320
166.	Engineering Sciences	Fabrication of mechanically robust bio-inspired bouligand cellulose nanocrystals-based nanocomposites via self-assembly and their engineering applications	Paramita Das, Indian Institute of Science Education and Research Bhopal, Bhopal,Madhya Pradesh,462023	2719790
167.	Engineering Sciences	Understanding the engineering behaviour of unsaturated geomaterials and implementing it in limit analysis for solving geotechnical problems	Manash Chakraborty, Indian Institute of Technology (Bhu), Varanasi,Uttar Pradesh,221005	2728000
168.	Engineering Sciences	Complexity Dichotomies for Graph Modification Problems	Sandeep R B, Indian Institute of Technology Dharwad, Dharwad,Karnataka,580011	1222650
169.	Engineering Sciences	Exploring an alternate route to geostrophic turbulence through instability	Pranav Ramkrishna Joshi, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	3079200
170.	Engineering Sciences	Mobility Aware Spectrum Handoff Schemes under Heterogeneous Spectrum Environment (HetSE) in Cognitive Radio (CR) Cellular Network: Modeling and Simulation	Shanidul Hoque, Madanapalle Institute of Technology & Science, Chittoor,Andhra Pradesh,517325	1372590

171.	Engineering Sciences	Thermal Analysis and Modelling of Multi-finger AlGaN/GaN HEMT for RF Applications	Biplab Sarkar, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	3155570
172.	Engineering Sciences	Fiber Laser Based Surface Texturing of Aluminum - Mg Alloy for Adhesion Improvement	Shashi Prakash, Ahmedabad University, Ahmedabad,Gujarat,380009	2330410
173.	Engineering Sciences	Design of New Anodes for Biogas fuelled Protonic Ceramic Fuel Cells	Narendar Nasani, Centre For Materials For Electronics Technology Pune, Pune,Maharashtra,411008	3003300
174.	Engineering Sciences	Design and Development of a Composite Heat Sink based Battery Thermal Management System for Indian Electric Vehicle Industry	Samarjeet Chanda, Indian Institute of Technology Palakkad, Palakkad,Kerala,678557	3070370
175.	Engineering Sciences	Investigations on the Unsteady Dynamics of 3-Dimensional Shock Induced Separation	Sriram Rengarajan, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2865460
176.	Engineering Sciences	Design and development of Substrate Integrated Waveguide (SIW) and Empty SIW (ESIW) based RF-Microwave components	Arani Ali Khan, Indian Institute of Technology Jodhpur, Jodhpur,Rajasthan,342011	2543210
177.	Engineering Sciences	Site Specific Seismic Hazard Studies for Amaravati Region, Andhra Pradesh	Giridhar Rajesh Bande, National Institute of Technology andhra Pradesh, Tadepalligudem,Andhra Pradesh, 534101	3249400
178.	Engineering Sciences	Combining Information and Queuing Theory for Emerging Applications	Avhishek Chatterjee, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	2016300
179.	Engineering Sciences	Development of High Compression Ratio (HCR) CI Engine fuelled with Second Generation Bio-ethanol	Pravesh Chandra Shukla, Indian Institute of Technology Bhilai, Bhilai,Chhattisgarh,492015	2138400
180.	Engineering Sciences	Integrated Design of Fixed-Frequency Current-Mode Hysteretic Controlled DC-DC Buck Converter With Fast Transient Response and Improved Load Regulation for Application Processors (APs)	Ashis Maity, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	3249400
181.	Engineering Sciences	Aqueous-phase Mild Oxidation of Methane to Methanol on Atomically Dispersed Catalysts: Mechanistic Insights and Solvent Effects from First Principles	Jithinjohn Varghese, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	3289000
182.	Engineering Sciences	Development of Flexible Environmental Gas Sensor based on 2D MoS ₂ Nanosheets	Sapana Ranwa, National Institute of Technology Durgapur, Durgapur,West Bengal,713209	2606650

183.	Engineering Sciences	RFID based wireless sensors for surface crack monitoring	Geetha Chakravarthi, National Institute of Technology Tiruchirappalli,Tiruchirappalli,Tamil Nadu, 620015	2706500
184.	Engineering Sciences	Numerical and Experimental Investigation on Nonlinear Vibroacoustic Response of Laminated Composite and Functionally Graded Material Shell Panel under Hygrothermal Environment	Trupti Ranjan Mahapatra, Veer Surendra Sai University of Technology, Sambalpur,Orissa,768018	3267000
185.	Engineering Sciences	Online Optimization Models for Tolling Highway Lanes	Tarun Rambha, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	3034900
186.	Engineering Sciences	Addressing Memory Requirement Challenges of Graph Processing on General-purpose processors and Accelerators	Venkatakalyan Tavva, Indian Institute of Technology Ropar, Ropar,Punjab,140001	2292930
187.	Engineering Sciences	Adaptive Cell Scheduling Function of 6TiSCH Network for Efficient Data Communication in Industrial Internet of Things	Manas Khatua, Indian Institute of Technology Guwahati,Guwahati,Assam,781039	2050400
188.	Engineering Sciences	Resolving airfoil self-noise mechanism using diagnostic acoustic imaging tool	Akhilesh Mimani, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2994260
189.	Engineering Sciences	Structural Health Monitoring based on Bayesian Approach using Vibration Data	Sahil Bansal, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3005550
190.	Engineering Sciences	Development of Carbon based Force Sensors for Artificial Intelligence and Biomedical Applications	Indu Elizabeth, National Physical Laboratory, New Delhi,Delhi,110012	2997270
191.	Engineering Sciences	A Polymorphic Polynomial Chaos Approach towards Stochastic Design Optimization of Integrated Circuits in the Presence of Epistemic and Aleatory Variables	Sourajeet Roy, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	2022370
192.	Engineering Sciences	Experimental and numerical investigation into the longitudinal compressive failure of carbon fibre reinforced composites	Supratik Mukhopadhyay, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	3037100
193.	Engineering Sciences	Impact of nanoinclusions and grain boundaries on thermoelectric materials	Amit Kumar Singh, Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	2743400
194.	Engineering Sciences	Microfluidics sperm cell sorting device: addressing male infertility factor	Siddhartha Tripathi, Birla Institute of Technology and Science Pilani-Goa,Zuarinagar, Goa,403726	2741440

195.	Engineering Sciences	Flying Ad hoc Network for disaster rescue operations	Sarang Chandrashekhar Dhongdi, Birla Institute of Technology and Science Pilani-Goa, Zuarinagar,Goa,403726	2156000
196.	Engineering Sciences	Harvesting energy from underwater ocean currents through coupled vortex-induced vibration, flapping dynamics, electromagnetic induction and piezoelectric effects	Pardhasaradhi Gurugubellivenkata, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	2735370
197.	Engineering Sciences	Development of hybrid smart grid communication network for last mile connectivity: A D2D and PLC approach	Soumya Prakash Dash, Indian Institute of Technology Bhubaneswar,Bhubaneshwar, Orissa,751013	2932380
198.	Engineering Sciences	Design and Development of Innovative Structural Health Monitoring (SHM) System using Embedded Piezo based Active Sensing Approach for Delamination Detection in Multi-Layer Composite Structures	Devendra Gokul Patil, Birla Institute of Technology and Science Pilani-Goa, Zuarinagar,Goa,403726	2884060
199.	Engineering Sciences	Deep learning and Reinforcement learning: New algorithms with improved interpretability, scalability, reliability and efficiency	Chandrashekar Lakshminarayanan, Indian Institute of Technology Palakkad, Palakkad,Kerala,678557	1566200
200.	Engineering Sciences	Control of Instabilities in Jeffcott rotor	Ashesh Saha, National Institute of Technology Calicut, Calicut,Kerala,673600	2343387
201.	Engineering Sciences	Development and Augmentation of the Industry Standard ASM-GaN-HEMT Model for State-of-the-art Integrated Circuit Design	Sheikh Aamir Ahsan, National Institute of Technology Srinagar, Srinagar,Jammu and Kashmir, 190006	3059100
202.	Engineering Sciences	Information Processing and Learning over Graphs and Irregular Domains	Sundeepr Prabhakar Chepuri, Indian Institute of Science, Bangalore, Bangalore,Karnataka,560012	2339700
203.	Engineering Sciences	Compositional Engineering of A-Site Cations in Hybrid Perovskites for Solar Cell Applications	Trilok Singh, Indian Institute of Technology Kharagpur, Kharagpur,West Bengal,721302	2948000
204.	Engineering Sciences	Self-regenerated cost-effective droplet based continuous PCR	Monojit Chakraborty, Indian Institute of Technology Kharagpur,Kharagpur, West Bengal,721302	3300000
205.	Engineering Sciences	Study on Enhancing the Removal of Recalcitrant Pharmaceuticals in Simultaneous Nitrification and Denitrification System	Arya V, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3082750

206.	Engineering Sciences	Design and Analysis of Modern Communication Networks using Stochastic Geometry for Molecular Communication and Beyond-5G Systems	Abhishek Kumar Gupta, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2203190
207.	Engineering Sciences	Intensified Continuous Crystallizer for APIs: Design and Development	Sreepriya Vedantam, Indian Institute of Chemical Technology,Hyderabad,Telangana, 500607	2477840
208.	Engineering Sciences	Deep learning algorithms for molecular structural data analysis with applications in drug discovery and bioinformatics	Kalidas Yeturu, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	1917710
209.	Engineering Sciences	Design characterization and fabrication of a free flow water wheel with high efficiency for electricity generation in remote hilly area	Jyoti Kumar Doley, North East Institute of Science & Technology,Jorhat,Assam,785006	2995920
210.	Engineering Sciences	Development of sustainable pressure sensitive adhesives from bio-sourced pre-polymers: A green alternative for semi-structural applications	Sushanta Kumar Sahoo, National Institute For Interdisciplinary Science & Technology, Thiruvananthapuram,Kerala,695019	2305080
211.	Engineering Sciences	Design and development of soft interconnect for DC Microgrids using power electronics interface for improved reliability of power supply	Amritesh Kumar, National Institute of Technology Silchar, Silchar,Assam,788010	2908400
212.	Engineering Sciences	Electrochemical Conversion of Flue Gas into Hydrocarbon Fuel in Solid Oxide Cells	Neetu Kumari, Malviya National Institute of Technology, Jaipur,Rajasthan,302017	3216400
213.	Engineering Sciences	Flash sintering of oxide ceramics: Effect of electrical parameters on densification mechanism, microstructure and mechanical properties	Devinder Yadav, Indian Institute of Technology Patna, Patna,Bihar,801103	3187890
214.	Engineering Sciences	Technology development for 3D printing solid rocket propellants and their green alternatives	Anirudha Dhananjay Ambedkar, Indian Institute of Technology Goa, Ponda,Goa,403401	2844770
215.	Engineering Sciences	Mitigation of weldability issues and residual stresses in dissimilar welded joints of ultra-supercritical power plants	Chandan Pandey, Indian Institute of Technology Jodhpur, Jodhpur,Rajasthan,342011	2526980
216.	Engineering Sciences	Enhancement of mixing and entrainment in two layer shear flow by employing rotary rollers	Basanta Kumar Rana, KiiT University, Bhubaneswar,Orissa,751024	1670900
217.	Engineering Sciences	Synthesis of New Thermoelectric Materials, Exploring Cu-S Binary	Ritayan Chatterjee, Heritage Institute of Technology, Kolkata,West Bengal,700107	3157000

218.	Engineering Sciences	Study of Heat Transfer Rates to Bodies Under Liquid Pool Fire Exposure	Sudheer Siddapureddy, Indian Institute of Technology Dharwad, Dharwad,Karnataka,580011	3139400
219.	Engineering Sciences	Sensorless Control of Switched Reluctance Motor Drives for Electric Vehicle Applications	Av Ravi Teja, Indian Institute of Technology Ropar, Ropar,Punjab,140001	2619580
220.	Engineering Sciences	Self-propulsion of a surfactant-like particle with an active head	Venkateshwar Rao Dugyala, Indian Institute of Science Education and Research Bhopal, Bhopal,Madhya Pradesh,462023	2684680
221.	Engineering Sciences	Multi-functional optically-sensitive devices with high efficiencies using perovskites	Revathy Padmanabhan, Indian Institute of Technology Palakkad, Palakkad,Kerala,678557	3087770
222.	Engineering Sciences	Development and mechanical characterization of the microwave assisted biomedical coatings on stainless steel	Amit Bansal, I K Gujral Punjab Technical University, Kapurthala,Punjab,144602	2979900
223.	Engineering Sciences	Engineering of high performance signal processing elements for real time infrastructure	Mohamed Asan Basiri, Indian Institute of Information Technology Design and Manufacturing, Kurnool,Kurnool,Andhra Pradesh, 518002	2799100
224.	Engineering Sciences	Coexistence of LTE-Unlicensed and WiFi: Theory and Practice	Naveen K P, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	1855700
225.	Engineering Sciences	Experimental and Modeling Study of Biomass Conversion in Different Reactive Media in Packed Bed Gasification Process	Sandeep Kumar., Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	2859010
226.	Engineering Sciences	Micro-plasma transistor for high temperature application	Karumbaiah Chappanda, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	2563070
227.	Engineering Sciences	Hierarchical Shape Selective Cu nanoparticles on Titania Nanotube Arrays for Selective Electrochemical Reduction of CO ₂ to C ₂ products.	Keerthiga G, S R M Institute of Science and Technology, Chennai,Tamil Nadu,603203	1947000
228.	Engineering Sciences	An Effective Technique to Detect PV Array Faults and Predict the Lifetime of PV Modules in a Commercial PV Plant	Chakkarapani M, Madanapalle Institute of Technology & Science, Chittoor,Andhra Pradesh,517325	1634800
229.	Engineering Sciences	Development of Reliable and Efficient Utility Scale Photovoltaic Inverter for Indian Environment	Sumit Kumar Chattopadhyay, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3241130
230.	Engineering Sciences	Failure envelopes generation for Uni-directional Composite plies / laminates using micro-scale strain and damage analysis: An experimental and numerical study	Subbareddy Daggumati, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	2604720

231.	Engineering Sciences	Study and development of highly efficient multichannel photocatalytic micro/milli reactor for textile waste water treatment exploiting hollow spherical zinc based metal oxide composite.	Susmita Das, National Institute of Technology Calicut,Calicut,Kerala,673600	2061850
232.	Engineering Sciences	Designing Nanostructures for Hierarchical Phonon Scattering in Zinc Oxide for Thermoelectric Energy Generation	Abhishek Tewari, Indian Institute of Technology Roorkee, Roorkee,Uttarakhand,247667	2096380
233.	Engineering Sciences	A high accuracy digitizer for calibration of instrument transformers	Prashanth Vooka, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	2838000
234.	Engineering Sciences	Hybrid Cascaded Diode Clamped Multilevel Converter For Efficient On/Off Grid Connected Renewable Energy System Addressing The Problem Of Power Mismatch Conditions	Jayaram Nakka, National Institute of Technology andhra Pradesh,Tadepalligudem, Andhra Pradesh,534101	2968910
235.	Engineering Sciences	MUT-DROCO: MULTipath networking Test-bed for DROne COmmunications	Paresh Saxena, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	1660600
236.	Engineering Sciences	Machine Learning Techniques for Resource Allocation in Cell-Free Massive MIMO Communications	Syed Mohammad Zafaruddin, Birla Institute of Technology and Science Pilani, Pilani,Rajasthan,333031	1848400
237.	Engineering Sciences	IoT Enabled, 2-D Nanomaterial Leaf Wetness Micro-Sensor On Flexible Substrate for Integrated Plant Disease Management	Vinay Shrinivas Palaparthi, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar,Gujarat,382007	1813100
238.	Engineering Sciences	A novel master composite approach to fabricate A356 Metal matrix nanocomposites by semi-solid processing	Nagaraj Chelliah Machavallavan, Psg College of Technology, Coimbatore,Tamil Nadu,641004	2926000
239.	Engineering Sciences	A Feasibility Study and Hardware Framework for Photoplethysmogram based Non-Invasive Blood Parameter Monitoring System using Near Infrared Spectroscopy and Machine Learning Techniques	Swathi Reddy, Bvrit Hyderabad College of Engineering For Women, Hyderabad,Telangana,500090	1830400
240.	Engineering Sciences	Elevated Temperature Tribological And Oxidation Behavior Of HVOF Sprayed Conicfesimo/FLY ASH COATINGS.	Mahantayya K Mathapati, K L E College of Engineering & Technology,Belagavi,Karnataka,591201	2461800
241.	Engineering Sciences	Design and Implementation of Efficient Detection Techniques for Index Modulated Massive MIMO Systems	Manish Mandloi, Svkm's Nmims, Mumbai,Maharashtra,425405	1840260

242.	Engineering Sciences	Food safety and quality analysis on flexible nanostructured substrates by Surface Enhanced Raman spectroscopy	Naidu Dhanpal Jayram, Kalasalingam Academy of Research and Higher Education, Kalasalingam University, Virudunagar, Tamil Nadu, 626190	3201000
243.	Engineering Sciences	Dual Voltage Source Inverter based DSTATCOM for Microgrid Application	Mrutyunjaya Mangaraj, Lendi Institute of Engineering and Technology, Vizianagaram, Andhra Pradesh, 535005	1562040
244.	Engineering Sciences	Optimal Design and Development of Machine Learning Model for Remote Monitoring and Control of Hybrid Microgrid in Educational Institutions using Smart Sensor Network and IoT.	Jeslin Drusilanesamalar J, Kamaraj College of Engineering and Technology, Virudunagar, Tamil Nadu, 626001	2864400
245.	Engineering Sciences	SAT Z'PiezoS: Scandium doped AlN Thin Films for Zero-power Piezoelectric Sensors	Nagaraja Kireeti Kodihalli, Manipal Academy of Higher Education, Manipal, Karnataka, 576104	3206030
246.	Engineering Sciences	Detection of Vehicle for Intelligent Traffic Management System	Mallikarjun Hemanna Anandhalli, K L S Gogte Institute of Technology, Belagavi, Karnataka, 590008	1571900
247.	Engineering Sciences	Bayesian Deep Models for Efficient Privacy-Aware Learning in the Era of Big Data and Personalization	Mrinal Kanti Das, Indian Institute of Technology Palakkad, Palakkad, Kerala, 678557	1780900
248.	Engineering Sciences	Shape optimization of optical structures	Viswas S Nair, Amrita Vishwa Vidyapeetham University Kollam, Kollam, Kerala, 690525	2872500
249.	Engineering Sciences	SecIoT: An Integrated Framework for Comprehensive Security and Forensic Analysis of IoT-based Smart Home and Healthcare Devices and Wearables	Nirnay Ghosh, Indian Institute of Engineering Science and Technology (IIST), Howrah, West Bengal, 711103	1666160
250.	Engineering Sciences	Design, characterization and fabrication of micro lens array for 3D light field imaging	Vivek Maikandavel, S R M Institute of Science and Technology, Chennai, Tamil Nadu,	2790050
251.	Engineering Sciences	Robust Person Re-identification with Operator Feedback and Cross-camera Appearance Transfer	Anirban Chakraborty, Indian Institute of Science, Bangalore, Bangalore, Karnataka, 560012	2236300
252.	Engineering Sciences	Impact of Lateral Straggle on the Logic Gates, SRAM, and Ring Oscillator in Silicon on Insulator (SOI) Tunnel FET	Rajesh Saha, Malviya National Institute of Technology, Jaipur, Rajasthan, 302017	2307800
253.	Life Sciences	Mitochondrial genome assembly, analysis and development of molecular markers for cytoplasmic male sterility (CMS) gene in tropical onion	Deepak, Punjab Agricultural University, Ludhiana, Punjab, 141004	2940344

254.	Life Sciences	Microbiome analysis and their application for pesticide biodegradation and plant growth promotion in subtropical horticultural crops	Govind Kumar, Central Institute of Sub Tropical Horticulture, Lucknow,Uttar Pradesh,226101	2792113
255.	Life Sciences	Understanding the mechanism of genome packaging and translocation in small plant viruses	Tushar Ranjan, Bihar Agricultural University, Bhagalpur,Bihar,813210	3158477
256.	Life Sciences	A genomic and metagenomic insight into the anthropophilic behaviour in <i>Aedes aegypti</i> , a highly efficient arboviral disease vector	Devojit Kumar Sarma, National Institute For Research In Environmental Health, Bhopal,Madhya Pradesh,462001	3104809
257.	Life Sciences	Unraveling the role of RNA-binding protein Quaking in cardiac remodeling with emphasis on Titin alternative splicing	Shashi Kumar Gupta, Central Drug Research Institute, Lucknow,Uttar Pradesh,226031	3246523
258.	Life Sciences	Smooth-coated otter as an ecological indicator of riparian habitat ecosystem	Riddhika Ramesh, Salim Ali Centre For Ornithology & Natural History, Coimbatore,Tamil Nadu,641010	1846800
259.	Life Sciences	Deciphering the role of the Unfolded Protein Response (UPR) Pathway to combat chemo-resistance in triple negative breast cancer cells: Involvement of a natural anthraquinone, Emodin	Swatilekha Ghosh, Amity University Kolkata, Kolkata,West Bengal,700156	2934607
260.	Life Sciences	High frequency in-vitro propagation of <i>Porteresia coarctata</i> and analysis of polyamine content under salinity stress.	Saurav Bhattacharya, Techno India University, Kolkata,West Bengal,700091	1934298
261.	Life Sciences	Explore the functional role of Heterotrimeric G-protein signalling in desiccation tolerant lower group of the land plant	Swarup Roychoudhury, Indian Institute of Science Education and Research Tirupati, Tirupati,Andhra Pradesh,517507	3260216
262.	Life Sciences	Understanding mechanism underlying plant invasion and survival by <i>B. cinerea</i> using temporal secretome mining approach	Nidhi Adlakhia, Regional Centre For Biotechnology, Faridabad,Haryana,121001	2703283
263.	Life Sciences	Novel Milk Exosomes for the Combination Therapy by using Selected Natural Medicine (Paclitaxel & Colchicine) for the Efficient Management of Breast Cancer	Ashish Kumar Agrawal, Indian Institute of Technology (Bhu), Varanasi,Uttar Pradesh,221005	3138344
264.	Life Sciences	Endoplasmic Reticulum stress response in orchestrating mucosal immune response: exploring novel therapeutic intervention for Inflammatory Bowel Disease	Amit Lahiri, Central Drug Research Institute, Lucknow,Uttar Pradesh,226031	2817720

265.	Life Sciences	Temporal profiling of mRNA binding proteins to understand circadian regulation of translation in marine phytoplankton	Sougat Roy, Ashoka University, Sonapat,Haryana,131029	2742872
266.	Life Sciences	Understanding the molecular mechanisms of growth promotion and salinity tolerance conferred by PHA, an endophytic bacterium on non-native host plants using transcriptomics	Raja Rajesh Kumar Koppolu, Indira Gandhi National Tribal University, Anuppur,Madhya Pradesh,484887	2915000
267.	Life Sciences	Mapping of neck blast disease resistance genes in rice through next generation sequencing	Mahesh Hb, University of Agricultural Sciences Bangalore, Bangalore,Karnataka,560065	3297316
268.	Life Sciences	Experimental validation of pre-identified candidate genes regulating protein storage in chickpea seeds	Kaustav Bandyopadhyay, Amity University Haryana, Gurgaon,Haryana,122413	3199735
269.	Life Sciences	Molecular characterization of flavonol biosynthesis in banana: Towards development of flavonol enriched banana	Ashutosh Pandey, National Institute of Plant Genome Research, New Delhi,Delhi,110067	2995867
270.	Life Sciences	Improvement Of Biomethanation In Anaerobic Digesters In Cold Regions With Interventions Of Anaerobic Psychrotrophic Bacteria	Rakshak Kumar, Institute of Himalayan Bioresource Technology, Palampur,Himachal Pradesh,176061	2966434
271.	Life Sciences	Development of Shrimp anti-WSSV-IgY Antibody Therapeutics (WSSV-IgY-T) from immunoglobulin Y (IgY) using WSSV Antigens and Synthetic Peptides and their Commercial Applications in Aquaculture Industries	Jayesh Puthumana, Cochin University of Science and Technology, Kochi,Kerala,682022	2794550
272.	Life Sciences	Identification of genetic architecture, generating natural variation in antihypertensive and antineoplastic monoterpenoid indole alkaloids production in <i>Catharanthus roseus</i> via metabolome-genome wide association studies (mGWAS).	Abhishek Sharma, Uka Tarsadia University, Surat,Gujarat,394350	2610894
273.	Life Sciences	Big data and Machine learning based approach to understand combined stress response signatures in multiple cultivating crop plants	Pankaj Barah, Tezpur University, Tezpur,Assam,784028	2324102
274.	Life Sciences	Determining the role of the gastric microbiota in <i>Helicobacter pylori</i> infection to utilize it for the development of a probiotic therapy	Oindrilla Mukherjee, National Institute of Technology Durgapur,Durgapur,West Bengal, 713209	3105318

275.	Life Sciences	A systematic study of the fungal family Entolomataceae (Agaricales, Basidiomycota) of Kerala State and Mahe (UT of Puducherry)	Anil Raj K N, Mahatma Gandhi Government Atrs College, Mahe, Puducherry, Puducherry, 673311	2519000
276.	Life Sciences	Electroactive haloalkaliphiles: Enrichment and characterization of electrochemically active microorganisms from the extreme saline-alkaline habitat	Sunil Anil Patil, Indian Institute of Science Education and Research Mohali, Chandigarh, Chandigarh, 140306	3227951
277.	Life Sciences	Anaerobic ammonia oxidising bacteria (Anammox) as potential source for treating ammonia rich waste: Diversity and technologies	Tushar Dilipchand Lodha, National Centre For Cell Science, Pune, Maharashtra, 411007	2411164
278.	Life Sciences	Electrical Cell-Substrate Impedance Sensing for Monitoring Anti-Oxidant and Anti-Inflammatory Effect of Semisynthetic Nanomaterials in Cells-on-a-Chip	Murugan Veerapandian, Central Electro Chemical Research Institute, Karaikudi, Tamil Nadu, 630006	2424496
279.	Life Sciences	Genome-wide identification and characterization of transfer RNA derived fragments (tRFs) in chickpea	Shailesh Kumar, National Institute of Plant Genome Research, New Delhi, Delhi, 110067	3249676
280.	Life Sciences	Genetic And Physiological Architecture Of Weed Competitive Ability In Iranian Wheat Landraces	Parampreet Kaur, Punjab Agricultural University, Ludhiana, Punjab, 141004	2126344
281.	Life Sciences	Demystifying the mystery of STIM1 augmentation: Understanding molecular mechanisms controlling expression of STIM1, a novel regulator of melanoma progression and skin pigmentation	Rajender K Motiani, Regional Centre For Biotechnology, Faridabad, Haryana, 121001	3056178
282.	Life Sciences	Interactions between reward motivation and negative emotional processing	Srikanth Padmala, Indian Institute of Science, Bangalore, Bangalore, Karnataka, 560012	2684000
283.	Life Sciences	Unravelling the role of LIGHT-RESPONSE BRIC-A-BRACK/TRAMTRACK/BROAD (LRB) E3 ubiquitin ligases in temperature-mediated regulation of growth and reproduction in Arabidopsis thaliana	Sreeramaiah N Gangappa, Indian Institute of Science Education and Research Kolkata, Nadia, West Bengal, 741246	2737366
284.	Life Sciences	Identification and functional characterization of combined drought and heat stress-responsive transcription factors in Arabidopsis thaliana	Annapurnadevi Allu, Indian Institute of Science Education and Research Tirupati, Tirupati, Andhra Pradesh, 517507	2744500
285.	Life Sciences	Regulation of adult hippocampal neurogenesis by exercise- role of the noradrenergic system	Shanker Jha, Sastra University, Thanjavur, Tamil Nadu, 613401	2647689

286.	Life Sciences	Design and synthesis of novel structural analogues of Mefloquine and coated with modified chitosan as nanoparticles to produce synergetic effect and sustained release drug delivery for the treatment of malaria	Vinit Raj, Suresh Gyan Vihar University, Jaipur,Rajasthan,302029	2378773
287.	Life Sciences	Development of long non-coding RNA generated at the site of DNA double-strand break as a novel prognostic marker for chemoresistance in breast cancer	Sheetal Sharma, Post Graduate Institute of Medical Education and Research, Chandigarh,Chandigarh,160012	3131581
288.	Life Sciences	Development of nanoformulation containing follistatin like-1 protein/peptide with Zingiberaceae and Citrus plants derived nanovesicles for treating chronic ulcers	Gopinath Meenakshisundaram, Central Food Technological Research Institute,Mysore,Karnataka,570020	2778883
289.	Life Sciences	Identifying role of Betel Quid Extract in sustaining cancer stem cell: A potential target for therapeutic resistance in oral cancer.	Rajeev Mishra, Manipal University Jaipur, Jaipur,Rajasthan,303007	3298460
290.	Life Sciences	Role of Polyampholyte and Polyelectrolyte Polypeptide Segments in Modulating Protein Expression Homeostasis and Functionality of Intrinsically Disordered Proteins	Sreenivas Chavali, Indian Institute of Science Education and Research Tirupati, Tirupati,Andhra Pradesh,517507	3302750
291.	Life Sciences	Gedunin-ZnO nanoparticle-incorporated Poly-L-Lactic acid electrospun nanofibrous scaffold for controlled drug delivery using a three-dimensional hepatosphere model	Dillip Kumar Bishi, Ramadevi Women's University, Bhubaneshwar,Orissa,751022	3046879
292.	Life Sciences	Identification & characterization of E3 enzymes responsible for phospho-ubiquitin chains, and small-molecules screening against PINK1	Atul Kumar, Indian Institute of Science Education and Research Bhopal, Bhopal,Madhya Pradesh,462023	3089869
293.	Life Sciences	Identifying the potential role of Angiotensin Receptor Blockers in sarcopenia of aging and disuse muscle atrophy	Sapana Kushwaha, Baba Saheb Bhimrao Ambedkar University,Lucknow,Uttar Pradesh, 226025	3020402
294.	Life Sciences	“Understanding the genetic interactions of parkin and α -Synuclein affecting pathogenesis of Parkinson’s disease”	Meghana Tare, Birla Institute of Technology and Science Pilani, Pilani,Rajasthan,333031	2255000

295.	Life Sciences	Unraveling the Molecular Mechanism(s) Behind the Immune-switch from Immunosuppressive to Immunogenic Phenotype in Differentiated Allogenic Mesenchymal Stem Cells Intended for Bone Tissue Repair/Regeneration	Saravanan Sekaran, Sastra University, Thanjavur,Tamil Nadu,613401	2429229
296.	Life Sciences	Mitigating the impact of antifungal resistance in the emerging pathogen <i>Candida auris</i> by piggybacking its peptide permease as an antifungal delivery system	Atanu Banerjee, Amity University Haryana, Gurgaon,Haryana,122413	3232312
297.	Life Sciences	Modulation of folliculogenesis to augment prolificacy through dietary n-3 polyunsaturated fatty acids in sheep	Ajit Singh Mahla, Central Sheep and Wool Research Institute, Tonk,Rajasthan,304501	3237872
298.	Life Sciences	Functional characterization of <i>Plasmodium falciparum</i> ion transporters prokaryotic in origin for drug development against malaria.	Ankit Gupta, All India Institute of Medical Sciences, Raebareli, Rae Bareli,Uttar Pradesh,229405	3163395
299.	Life Sciences	Theoretical biophysics of molecular competition in gene expressions	Dipjyoti Das, Indian Institute of Science Education and Research Kolkata, Nadia,West Bengal,741246	2895816
300.	Life Sciences	Elucidating the role of Circular RNAs in response to drought in Tomato	Sam Aldrin, Sastra University, Thanjavur,Tamil Nadu,613401	2981000
301.	Life Sciences	Silk protein - biomaterial based nanofibrous scaffold containing deferoxamine and ferulic acid for rapid healing of diabetic foot ulcer.	Rajnikanth P S, Baba Saheb Bhimrao Ambedkar University, Lucknow,Uttar Pradesh,226025	2912800
302.	Life Sciences	Functional characterization of novel secreted effectors in <i>Magnaporthe oryzae</i>	Nazmiara Sabnam, Presidency University, Kolkata,West Bengal,700073	2642481
303.	Life Sciences	The Intervention of Phytohormone to Reduce Arsenic Accumulation in Rice Grains	Mohan Tc, Jss Academy of Higher Education and Research, Mysore,Karnataka,570015	2289320
304.	Life Sciences	Development of cost effective, biocompatible suture biomaterial from banana (<i>Musa balbisiana</i>) pseudostem in the field of veterinary research	Himadri Kalita, Assam Don Bosco University, Guwahati,Assam,781017	2539764
305.	Life Sciences	Development of corticospinal integrity assessment framework for stroke patients in low-resource settings	Kousik Sarathy Sridharan, Indian Institute of Technology Hyderabad, Hyderabad,Telangana,502205	2949386

306.	Life Sciences	Identification of novel interacting partners of Bromodomain and PHD Finger (BRPF) proteins and investigating their role in various types of cancer	Babu Sudhamalla, Indian Institute of Science Education and Research Kolkata, Nadia,West Bengal,741246	3278000
307.	Life Sciences	Fabrication of synthetic and biological material based 3D uterine myometrial tissue patches	Manasa Nune, Manipal Academy of Higher Education, Manipal,Karnataka,560065	2961200
308.	Life Sciences	Genetic engineering approach to increase storage lipid synthesis in rice leaves for sustainable biofuel production	Surajit Bhattacharya, Amity University Kolkata, Kolkata,West Bengal,700156	2243615
309.	Life Sciences	Developing methods for tolerance against drought and heat stress in Zea mays and Phaseolus vulgaris grown in Pir Panjal region of Jammu and Kashmir	Mohd Asgher, Baba Ghulam Shah Badshah University, Rajauri,Jammu And Kashmir,185131	3299472
310.	Life Sciences	Studies On Ligand 'Binding', 'Gating' And 'Allostery' In Heteropentameric Neuronal Nicotinic Acetylcholine Receptors.	Tapan Kumar Nayak, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2739000
311.	Life Sciences	Suicidal Gene Therapy Using Engineered Secretory Carboxylesterase-2/ Camptothecin-11 Targeting Chemoresistant Ovarian Serous Adenocarcinoma	Siddik Sarkar, Indian Institute of Chemical Biology, Kolkata,West Bengal,700032	3029400
312.	Life Sciences	Understand the regulation of lacritin expression during infection and characterize molecular pathways induced by lacritin in corneal epithelium	Rajaram Mohanroy Karnati, University of Hyderabad, Hyderabad,Telangana,500046	3146000
313.	Life Sciences	Investigation on the role of mitochondria in Arginyltransferase 1 (Ate1) mediated apoptotic cell death	Akhilesh Kumar, Banaras Hindu University, Varanasi,Uttar Pradesh,221005	3137303
314.	Life Sciences	Identification of latency associated genes as potential targets for the treatment of tuberculosis.	Vidyullatha Peddireddy, Gitam University, Vishakhapattanam,Andhra Pradesh, 530045	3226344
315.	Life Sciences	Enabling scale-up of somatic embryogenesis production in bioreactor for Crinum malabaricum: An important source of anti-Alzheimer drug	Vijay Kumar, Lovely Professional University, Jalandhar,Punjab,144411	1664872
316.	Life Sciences	Molecular characterization of a small-molecule based reprogramming of non-adipocyte cells to brown adipocytes for its potential use as anti-obesity drug.	Debojyoti De, National Institute of Technology Durgapur, Durgapur,West Bengal,713209	3167164

317.	Life Sciences	A comparative analysis of sporadic young onset and late onset rectal cancer from eastern India: miRNA profile of rectal tumours negative for canonical disease markers.	Sudarshana Basu, Netaji Subhas Chandra Bose Cancer Research Institute, Kolkata, West Bengal, 700094	2721438
318.	Life Sciences	Underwater visual performance and blur adaptation in swimmers and divers	Aishwaryah Radhakrishnan, S R M University Kattankulathur, Kattankulathur, Tamil Nadu, 603203	2949482
319.	Life Sciences	Identification of molecular players underlying tuberization in potato under elevated ambient temperature.	Geetha Govind, University of Agricultural Sciences Bangalore, Bangalore, Karnataka, 560065	3091000
320.	Life Sciences	Fine mapping of the chromatin structure of key genes involved in reproductive maturation and egg production in dengue vector mosquito, <i>Aedes aegypti</i>	Tusar Tirtha Saha, Birla Institute of Technology and Science Pilani-Goa, Zuarinagar, Goa, 403726	3159412
321.	Life Sciences	Understanding the functional role of vacuolar ATPases in trophocytosis and tissue invasion mediated by <i>Entamoeba histolytica</i>	Kuldeep Verma, Nirma University, Ahmedabad, Gujarat, 382481	2991736
322.	Life Sciences	Development and evaluation of in vitro three dimensional liver disease model system "Organ-on-chip"	Dinesh Mani Tripathi, Institute of Liver & Biliary Sciences, New Delhi, Delhi, 110070	3206500
323.	Life Sciences	Genome-wide analysis of Autophagy-related Genes (ATG) in <i>Gossypium hirsutum</i> (L.), and study of the role of autophagy in cotton fiber development	Surendra Pratap Singh, Dayanand Anglo-Vedic College, Kanpur, Uttar Pradesh, 208001	2882722
324.	Life Sciences	"Exploration of molecular dynamics of epitranscriptomics in B-Cell Malignancies"	Pankaj Kumar Giri, South Asian University, New Delhi, Delhi, 110021	3283681
325.	Life Sciences	Role of Tetraspanin5 in Amyloid Precursor Protein (APP) processing: Implications in Alzheimer's disease.	Prasad Tammineni, University of Hyderabad, Hyderabad, Telangana, 500046	2484249
326.	Life Sciences	Isolation and characterization of the receptor of sperm motility stimulating protein from sperm membrane and finding its role and mechanism in fertility management	Sudipta Saha, Amity University Noida, Noida, Uttar Pradesh, 201313	2975369
327.	Life Sciences	Role of Cystic fibrosis transmembrane conductance regulator (CFTR) in the pathogenesis of Non-alcoholic steatohepatitis (NASH)	Rohit Anthony Sinha, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, Uttar Pradesh, 226014	3270344
328.	Life Sciences	Carbon dots mediated imaging guided and targeted co-delivery of small anticancer molecules and siRNA for synergistic breast cancer treatment	Joydeep Das, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, 173229	2500872

329.	Life Sciences	Identification of Immunogenetic Risk Factors for Serious Fungal Infections in Children- a Next-Generation Sequencing based Study	Vignesh P, Post Graduate Institute of Medical Education and Research, Chandigarh,Chandigarh,160012	3028344
330.	Life Sciences	Peptide-aptamer functionalized stimuli-responsive nanocarriers for targeted delivery of anti-cancer bioactive to achieve eradication of breast tumor	Manoj Kumar Patel, Pt. Ravishankar Shukla University, Raipur,Chhattisgarh,492010	2724700
331.	Life Sciences	Visual functional deficits in Primary Angle Closure Glaucoma	Shonraj Ballaeganesrao, Manipal Academy of Higher Education, Manipal,Karnataka,576104	2146192
332.	Life Sciences	Investigation into the role of bacterial two-component signaling systems in the development of resistance to polymyxins, the last resort antibiotics	Saswat Sourav Mohapatra, Khallikote University, Ganjam,Orissa,760001	3039872
333.	Life Sciences	3D Printed Biomedical Personalized Caps with Drug Releasing Ability for Rescue of Alopecia Condition after Chemotherapy	Santosh Kumar Misra, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2839100
334.	Life Sciences	Single molecule imaging of MHC class II protein mediated bat influenza virus entry into mammalian cell	Dibyendu Kumar Das, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	3307832
335.	Life Sciences	Development of therapeutic peptides for blocking interactions between Hepatitis B Virus and host cellular proteins related with regulatory signaling pathways in hepatocellular carcinoma: A proteomic approach deciphering host-pathogen protein interactive n	Avik Biswas, Chittaranjan National Cancer Institute, Kolkata,West Bengal,700026	2881458
336.	Life Sciences	Novel strategies in green synthesis of smart, biomimetic scaffolds bio-functionalized with growth factors for meniscus regeneration	Gopalshankar K, PSG Institute of Advanced Studies, Coimbatore,Tamil Nadu,641004	2487595
337.	Life Sciences	In search of novel antidiabetic lead from Asparagus racemosus Willd. : A Sikkim and Darjeeling Himalayan regional Medicinal Plant	Ranabir Sahu, North Bengal University, Darjiling,West Bengal,734430	2830344
338.	Life Sciences	Design and evaluation of peptide assisted delivery strategy targeting $\alpha\beta 3$ integrin for potential alleviation of atherosclerosis	Rinku Baishya, North East Institute of Science & Technology, Jorhat,Assam,785006	1738800

339.	Life Sciences	An intergenerational nutritional supplementation approach for the establishment of a healthy microbiome in pregnant women (taking Iron supplementation) and her newborn in a low socio-economic cohort in Odisha.	Balamurugan Ramadass, All India Institute of Medical Sciences,Bhubaneshwar, Bhubaneshwar,Orissa,751019	2607000
340.	Life Sciences	Development of Loop Mediated Isothermal Amplification (LAMP) assay for rapid detection of Artemisinin resistant falciparum malaria in India	Prashant Kumar Mallick, National Institute of Malaria Research, New Delhi,Delhi,110077	1996221
341.	Life Sciences	Genetic Diversity of Nontuberculous Mycobacteria in Central India: Rapid Identification and Differentiation of Mycobacterium species by PCR-restriction enzyme analysis -hsp6 gene and 16S-23S ITS region of rDNA	Anand Kumar Maurya, All India Institute of Medical Sciences Bhopal, Bhopal,Madhya Pradesh,462020	3168253
342.	Life Sciences	Elucidation of Molecular Mechanisms Involved in the Therapeutic Action of soluble Epoxy Hydrolase Inhibitor (sEHI) in Metabolic Syndrome.	Swati Paliwal, Banasthali Vidyapith, Tonk,Rajasthan,304022	3256572
343.	Life Sciences	Dissecting the role of somatic polyploidy in the regulation of gene expression associated with liver disease	Ishaan Gupta, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	2871000
344.	Life Sciences	Establishing the Oral cancer tissue organoid/sphere (OCTO S) system to envisage the sequence of events in drug resistant tumors: An Armamentarium of drug discovery	Sai Balaji Andugulati, Indian Institute of Chemical Technology, Hyderabad,Telangana,500607	2220053
345.	Life Sciences	Comprehensive study on spermatozoa of Vechur and crossbred bulls for identifying breed-specific and fertility related biomarkers	Muhammad Aslam Mk, Kerala Veterinary and Animal Sciences University, Wayanad,Kerala,673576	2857233
346.	Physical & Mathematical Sciences	Partial Migration Phenomenon: A Game Theoretic Approach to Causes and Environmental effects	Anushaya Mohapatra, Birla Institute of Technology and Science Pilani-Goa, Zuarinagar,Goa,403726	1205292
347.	Physical & Mathematical Sciences	Controlling the Mott insulating states by DC Current	Chanchal Sow, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2870120
348.	Physical & Mathematical Sciences	Electric Field Control Of The Dzyaloshinskii-Moriya Interaction And Hence, Topological Spin Textures	Ashis Kumar Nandy, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	2841344

349.	Physical & Mathematical Sciences	Characterization of graphs by spectra of its distance and resistance matrix and some problems related to matrix theory and graph theory	Fouzul Atik, S R M University Ap, Guntur,Andhra Pradesh,522502	1290344
350.	Physical & Mathematical Sciences	Development of Fast Fluoride Ion Conducting Solid Electrolytes for Rechargeable Solid State Fluoride Ion Batteries	Laxminarayana Patro, S R M University Ap, Guntur,Andhra Pradesh,522502	3160564
351.	Physical & Mathematical Sciences	Search for Dark Matter in Mono-Photon, Mono-Higgs and Mono-Zprime final states using the proton-proton collisions data collected by the Compact Muon Solenoid Experiment at the Large Hadron Collider at center-of-mass energy of 13 TeV	Bhawna Gomber, University of Hyderabad, Hyderabad,Telangana,500046	1458501
352.	Physical & Mathematical Sciences	Optimizing Work Fluctuations of Quantum Heat Engines	B Prasanna Venkatesh, Indian Institute of Technology Gandhinagar, Gandhinagar,Gujarat,382424	1455872
353.	Physical & Mathematical Sciences	Vertex transitive graphs and Cayley graphs: Polycirculant Conjecture, Automorphism groups and other problems	Angsuman Das, Presidency University, Kolkata,West Bengal,700073	550000
354.	Physical & Mathematical Sciences	Keldysh Renormalization Group for Quantum Spin Liquids	Yasir Iqbal, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	3149767
355.	Physical & Mathematical Sciences	Immiscible liquid on liquid impact and entry dynamics	Deepak Kumar, Indian Institute of Science Education and Research Bhopal, Bhopal,Madhya Pradesh,462023	2893519
356.	Physical & Mathematical Sciences	Low-cost Chemical Vapor Deposition Processed Large Area Multi-Dimensional Lead Halide Perovskite Light-Emitting Devices	Saikat Bhaumik, Institute of Chemical Technology, Mumbai,Maharashtra,751013	2961200
357.	Physical & Mathematical Sciences	Scandium Nitride (ScN) Schottky and pn Junction Diodes	Bivas Saha, Jawaharlal Nehru Centre For Advanced Scientific Research, Bangalore,Karnataka,560064	2932600
358.	Physical & Mathematical Sciences	Vector Vortex Beams and their Scattering for Communication Applications	Gangi Reddy Salla, S R M University Ap, Guntur,Andhra Pradesh,522502	2617687
359.	Physical & Mathematical Sciences	Numerical Methods and Error Analysis for Solving Coagulation and Non-Linear Fragmentation Equations	Rajesh Kumar, Birla Institute of Technology and Science Pilani, Pilani,Rajasthan,333031	962500
360.	Physical & Mathematical Sciences	State Estimation and Fault Diagnosis for Differential-Algebraic Nonlinear Control Systems	Mahendra Kumar Gupta, National Institute of Technology Jamshedpur,Jamshedpur,Jharkhand, 831014	1464087

361.	Physical & Mathematical Sciences	Three-Colouring Wavefunctions for Quantum Magnets	Sumiran Pujari, Indian Institute of Technology Bombay, Mumbai,Maharashtra,400076	3003000
362.	Physical & Mathematical Sciences	Thermodynamics and quantum advantage of many-body quantum thermal machines	Victor Mukherjee, Indian Institute of Science Education and Research Berhampur, Ganjam,Orissa,760010	449790
363.	Physical & Mathematical Sciences	Quantum Chaos and Many-Body Phenomena in the Light of Semi-classics and Quantum Information Theory	Vaibhav Madhok, Indian Institute of Technology Madras, Chennai,Tamil Nadu,600036	1445334
364.	Physical & Mathematical Sciences	Unleashing the full potential of magnetoelectric coupling in (Ba, Ca)(Ti, Zr)O ₃ based multi-functional composite layered structures for healthier energy harvesting applications	Annapureddy Venkateswarlu, National Institute of Technology Tiruchirappalli,Tiruchirappalli,Tamil Nadu,620015	3146000
365.	Physical & Mathematical Sciences	Asymptotic analysis in a Domain with Strongly Varying Boundary	Bidhan Chandra Sardar, Indian Institute of Technology Ropar, Ropar,Punjab,140001	231000
366.	Physical & Mathematical Sciences	Photon-phonon Interactions for Communications applications	Amol Choudhary, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3154298
367.	Physical & Mathematical Sciences	Spectral properties of random perturbations of Toeplitz matrices	Anirban Basak, International Centre For Theoretical Sciences, Bangalore,Karnataka,560089	442800
368.	Physical & Mathematical Sciences	Accelerated Krylov subspace based solvers for Fourier-Galerkin based homogenization of periodic media & parallel implementations	Nachiketa Mishra, Indian Institute of Information Technology Design and Manufacturing, Kancheepuram, Kanchipuram,Tamil Nadu,600127	1389872
369.	Physical & Mathematical Sciences	Quantum symmetry of higher rank graphs and graph C*-algebras.	Arnab Mandal, Presidency University, Kolkata,West Bengal,700073	2004816
370.	Physical & Mathematical Sciences	Twisted Conformal Blocks with applications to Moduli Spaces	Swarnava Mukhopadhyay, Tata Institute of Fundamental Research, Mumbai, Mumbai,Maharashtra,400005	555433
371.	Physical & Mathematical Sciences	High-pressure regulation and performance optimization of thermoelectric materials based on IV-VI binary composition.	Prashant Shahi, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur,Uttar Pradesh,273009	3165844
372.	Physical & Mathematical Sciences	Low mass star formation in diverse environmental conditions	Jessy Jose, Indian Institute of Science Education and Research Tirupati, Tirupati,Andhra Pradesh,517507	1510872
373.	Physical & Mathematical Sciences	Taking SUSY "lightly": Exploring phenomenological viability of light singlet states in the context of non-minimal supersymmetric models	Pradipta Ghosh, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	677457

374.	Physical & Mathematical Sciences	Yielding and Plastic Deformation in Amorphous Materials	Bhaskar Sengupta, Vit University, Vellore,Tamil Nadu,632014	3028872
375.	Physical & Mathematical Sciences	QCD thermodynamics using non-perturbative Dyson-Swinger Equation approach	Najmul Haque, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	1638714
376.	Physical & Mathematical Sciences	Binding Kinetics of Hydro-dynamically interacting Brownian Particles in Linear Viscoelastic Medium	Amlan Kusum Barua, Indian Institute of Technology Dharwad, Dharwad,Karnataka,580011	1207844
377.	Physical & Mathematical Sciences	Dembowski-Ostrom polynomials derived from Dickson polynomials over finite fields	Sartaj Ui Hasan, Indian Institute of Technology Jammu, Jammu,Jammu And Kashmir,181221	1180344
378.	Physical & Mathematical Sciences	Direct measurements of electrocaloric effects in ferroelectric perovskites for solid-state cooling applications	Devajyoti Mukherjee, Indian Association For The Cultivation of Science,Kolkata,West Bengal, 700032	2320340
379.	Physical & Mathematical Sciences	Magneto-transport in ferromagnetic nanowire networks and Device applications	Nirat Ray, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	3091000
380.	Physical & Mathematical Sciences	Overcoming the Shockley–Queisser Limit of Photocurrent in $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Based Organic-Inorganic Hybrid Perovskite Solar Cells	Ashok Bera, Indian Institute of Technology Jammu, Jammu,Jammu And Kashmir,181221	1111000
381.	Physical & Mathematical Sciences	Aspects of Quantum information in QFT over curved geometries : Study through quantum detectors and analogue systems	Kinjalk Lochan, Indian Institute of Science Education and Research Mohali, Chandigarh,Chandigarh,140306	726000
382.	Physical & Mathematical Sciences	Lattice Supersymmetry and Holography	Anosh Joseph, Indian Institute of Science Education and Research Mohali, Chandigarh,Chandigarh,140306	1944488
383.	Physical & Mathematical Sciences	Hybrid photonic-plasmonic nanostructure for strong light-matter interaction at the single photon level	Ramachandrarao Yalla, University of Hyderabad, Hyderabad,Telangana,500046	3129500
384.	Physical & Mathematical Sciences	Space-time Domain Decomposition Methods for Non-linear Cahn-Hilliard Equation and Their Implementations in Parallel Computers	Bankim Chandra Mandal, Indian Institute of Technology Bhubaneswar,Bhubaneshwar, Orissa,751013	627000
385.	Physical & Mathematical Sciences	Regression Models for Doubly Inflated Multivariate Count Data using Copula	Ishpathik Das, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	979000
386.	Physical & Mathematical Sciences	Development of High-performance Energy Storage Devices with Earth Abundant Materials	Debasish Sarkar, Malviya National Institute of Technology, Jaipur,Rajasthan,302017	2494800

387.	Physical & Mathematical Sciences	Developing a source of bright entangled light for quantum communication and quantum sensing	Ashok Kumar, Indian Institute of Space Science and Technology, Thiruvananthapuram,Kerala,695547	2455029
388.	Physical & Mathematical Sciences	Crystal growth and electronic structure exploration of newly discovered magnetic Weyl semimetals and multiple degenerate Fermions	Jayita Nayak, Indian Institute of Technology Kanpur, Kanpur,Uttar Pradesh,208016	2211000
389.	Physical & Mathematical Sciences	Fabrication of High-k dielectric oxide layers with embedded semiconductor nanoparticles for flash memory device applications and their engineering by ion beam irradiation	Saikiran Vadavalli, Gitam University, Vishakhapattanam, Vishakhapattanam,Andhra Pradesh,	2632850
390.	Physical & Mathematical Sciences	Development of Carbon based materials for applications in high energy density Metal-Air battery cathode	Rajnish Dhiman, Malviya National Institute of Technology, Jaipur,Rajasthan,	2925450
391.	Physical & Mathematical Sciences		Mintu Mondal, Indian Association For The Cultivation of Science, Kolkata,Punjab,700032	3067200
392.	Physical & Mathematical Sciences	MCoMAS: A Multivariate Computational Lens for Problems arising in Multi-Agent Systems	Sushmita Gupta, National Institute of Science Education and Research Bhubaneswar, Bhubaneshwar,Orissa,751005	550800
393.	Physical & Mathematical Sciences	Engineering Magnetic order and Exchange Coupling in Topological Insulator Hetero-structures: A combined MBE and Spin-polarized STM Study	Sujit Manna, Indian Institute of Technology Delhi, New Delhi,Delhi,110016	1718750
394.	Physical & Mathematical Sciences	Insights into mechanical failure of amorphous solids using colloidal suspensions	Vijayakumar Chikkadi, Indian Institute of Science Education and Research Pune, Pune,Maharashtra,411008	2192502
395.	Physical & Mathematical Sciences	Time-resolved optical spectroscopy and device applications: Localized metallic state of ZnO and graphene based van der Waals' heterostructure.	Sesha Vempati, Indian Institute of Technology Bhilai, Bhilai,Chhattisgarh,492015	3146000
396.	Physical & Mathematical Sciences	Attosecond spectroscopy as a probe of electron correlation in small polyatomics	Vinay Pramod Majety, Indian Institute of Technology Tirupati, Tirupati,Andhra Pradesh,517506	2871000
397.	Physical & Mathematical Sciences	Adaptive and efficient method of fundamental solutions for the numerical reconstruction of boundary data in two-phase inverse Stefan problems	Gujji Mohanmurali Reddy, Birla Institute of Technology and Science Pilani-Hyderabad, Hyderabad,Telangana,500078	1045000

398.	Physical & Mathematical Sciences	Stability of periodic travelling waves of nonlinear PDEs modelling waves on the water surface	Ashish Kumar Pandey, Indraprastha Institute of Information Technology Delhi, New Delhi, Delhi, 110020	1476816
399.	Physical & Mathematical Sciences	Investigations on Intercalation Mechanism of Multivalent Ions in MXenes Nanosheets towards the Development of Electrode Materials for Next Generation Batteries and Supercapacitors	Ayyappan Sathyanarayanavarma, Sastra University, Thanjavur, Tamil Nadu, 613401	2772572