

Sponsored Closed projects during 2020-21

Sno	Project Title	Prinicipal Investigator	Department / Centre
1	Development of fuel rich propellant for ramjet application	Dr. Ramakrishna P A	Aerospace Engineering
2	UAVs for Disaster Management	Dr. Shankar P R	Aerospace Engineering
3	Thermoacoustic Instability as Pattern Formation in a System Far from Equilibrium	Dr. Sujith R I	Aerospace Engineering
4	Micro-injector development for spray applications	Dr. Mahesh Panchagnula	Applied Mechanics
5	VAJRA Visiting Faculty - Dr.Srinivasan A Mandayam	Dr. Manivannan M	Applied Mechanics
6	Solvent-Triggered Changing Bio-Polymer Films: Experimental and Numerical Design	Dr. Pijush Ghosh	Applied Mechanics
7	Development of Intelligent Diagnostic System for Multiple Abnormalities using Radiographic Mediastinum Images	Dr. Ramakrishnan S	Applied Mechanics
8	Understanding Thermophoretic Motion of Nanoscale Liquid Droplets of water and Ionic Liquids in Confined and Unconfined Conditions	Dr. Sarith P Sathian	Applied Mechanics
9	Design of expander having volumetric control to have high turndown and high part load efficiency to handle variable thermal input from solar collector for power generation ranging from 5kwe to 100kwe	Dr. Satyanarayanan Seshadri	Applied Mechanics
10	Project Smart Agricopter: The Next Generation Agricultural drone that offers a Completely Automated and end-to-end Solution to the Crop Maintenance Process	Dr. Satyanarayanan Seshadri	Applied Mechanics
11	An Automated Digital Staining Machine for Immediate Detection of Cancerous Cells and its Extent for usage during Perioperative Tumour Removal	Dr. Sujatha N	Applied Mechanics
12	Exploring the possibility of using venom-derived peptides to mitigate stroke-induced brain damage by targeting acid sensing ion channel	Dr. Amal Kanti	Biotechnology
13	Investigating the role of trans fatty acids on neuronal ion channels associated with ischemic stroke	Dr. Amal Kanti	Biotechnology
14	A Study On The Mechanism Of Pannexin Mediated Ischemic Cell Death	Dr. Amal Kanti	Biotechnology
15	Towards designing tunable nano machines: taking advantage of protein disorder	Dr. Athi Narayanan N	Biotechnology
16	Detection of Cancer Markers Using Metal Oxide Nanotubes Immobilized with Conducting Polymers by Photoelectrochemical Biosensing - Women Scientist Scheme -A	Dr. Chandra TS	Biotechnology
17	Systems Biology Approach for Investing the role of two-component Regulatory system (covR/covS) of Streptococcus in Generting Polydispersity during Hyaluronan Polymer Synthesis	Dr. Guhan Jayaraman	Biotechnology
18	Development of a riboregulator-based platform for control of gene expression and metabolic fluxes in bacterial cell factories	Dr. Guhan Jayaraman	Biotechnology
19	Micro RNA profiling and alteration of signaling pathways following curcumin and emodin treatment in cervical cancer cell lines - BIOCARE 2016	Dr. Karunagaran D	Biotechnology
20	Identification of Anti-atheroscleroticconstituents Presents in Gentianaceae Plants	Dr. Madhulika Dixit	Biotechnology

21	Role of a Ras effector- Ras Association (RaiGDS/AF-6) domain family member in tumor invasion and migration	Dr. Mahalingam S	Biotechnology
22	Quantitative tongue tissue proteomics of oral tongue squamous cell carcinoma for novel biomarker discovery - BIO CARE AWARD	Dr. Mahalingam S	Biotechnology
23	Mutational effects on binding affinity of protein-protein complexes: Development of database, tools and applications to diseases	Dr. Michael Gromiha M	Biotechnology
24	Structural and Molecular approach of targeting Bcl-2 family anti-apoptotic proteins	Dr. Michael Gromiha M	Biotechnology
25	Targeting Mitochondrial Calcium Fluxes using CaCo3 NPs - si NCLX - resveratrol NPs for Cancer Therapy - National Post Doctoral Fellowship	Dr. Mukesh Doble	Biotechnology
26	Assessment the Antidiabetic Potential of Glycosaminoglycans from Cephalopods - National Post Doctoral Fellowship	Dr. Mukesh Doble	Biotechnology
27	Bioprocess Development and Preclinical Evaluation of Novel and TB Antibiotic, Transimycin Isolated from Marine Streptomyces Sp. MTCC 5597	Dr. Mukesh Doble	Biotechnology
28	Understanding the Regulation of Heat Shock Proteins Under Hypoxia: in Vitro and in Vivo Studies	Dr. Nitish R Mahapatra	Biotechnology
29	Identification of Anti-atherosclerotic constituents Presents in Gentianaceae Plants	Dr. Others	Biotechnology
30	Synthesis and 3D bioprinting Patches of Mangostincarnosine Peptide with SF/Collagen Biomaterial for Cardiac Tissue Engineering	Dr. Rama Shanker Verma	Biotechnology
31	A Combined Experimental and Computational Study of Ionic Liquid Based Bicompatible Reverse Miscelles for Micellar Enzymology - CSIR RA	Dr. Sanjib Senapati	Biotechnology
32	Role of N-linked Glycosylation in Prion Protein Pre-aggregation: A Molecular Dynamics Study	Dr. Sanjib Senapati	Biotechnology
33	Application Service Provider for SWAYAM	Dr. Andrew Thangaraj	Centre for Continuing Education
34	Setting up of Teaching Learning Centre under the scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)	Dr. Edamana Prasad	Centre for Industrial Consultancy & Sponsored Research
35	Metal-Organic Frameworks for Solar Rechargeable Battery DST EMR	Dr. Aravind Kumar Chandiran	Chemical Engineering
36	Potent, Economical And Agro-Waste Basaed Adsorbent Filter; Developed in-house To Treat Textiles Dyeing Units Effluents in Villages	Dr. Kannan A	Chemical Engineering
37	Green Technology for Leather Processing: Tanning Approach based on Polymer Nanocomposites	Dr. Nagarajan R	Chemical Engineering
38	Development of dry slag, granulation technology and energy recovery system for blast furnace slag for producing clinker compatible product	Dr. Pushpavanam S	Chemical Engineering
39	Fabrication of a microfluidic device for intraocular pressure monitoring in the management of glaucoma.	Dr. Pushpavanam S	Chemical Engineering
40	Development of tubular PEM fuel Cells	Dr. Raghunathan Rengasamy	Chemical Engineering
41	Analysis of the fate and transport of non-aqueous phase liquids (NAPLs) in porous media under drying and rewetting conditions using magnetic resonance imaging (MRI)	Dr. Ravi Krishna R	Chemical Engineering
42	Support the Natural Environment and Wildlife of IIT Madras campus	Dr. Susy Varughese	Chemical Engineering

43	Effective Cracking of Endothermic Fuels using Different Initiators- Experimental and Mechanistic Study	Dr. Vinu R	Chemical Engineering
44	Investigation of stereoselective transition metal catalyzed carbenylative cross coupling: Synthesis of potential building blocks and carbo(Hetero)cycles having quaternary carbons	Dr. Anbarasan P	Chemistry
45	Asymmetric Electrophilic Arylthiolation/Trifluoromethylthiolation using Novel Se-based Chiral Lewis Base Catalyst	Dr. Anbarasan P	Chemistry
46	Oxidative cyclization of carbanion: Novel synthesis of carbo- and heterocyclic ring systems	Dr. Baskaran S	Chemistry
47	Development and Demonstration of 250W, 1kWh Vanadium Redox Flow Battery Systems Rechargeable by Renewable Energy such as Solar and Wind Energy	Dr. Kothandaraman Ramanujam	Chemistry
48	Peptide-based Mutual Pro-Drugs for Dual Inhibition of Key Protein Components in Cancer Cell Signaling	Dr. Muralaeddharan K M	Chemistry
49	Arsenic free south 24 parganas district using Indian technologies and design of an appropriate solution by large implementation in the field	Dr. Pradeep T	Chemistry
50	Cluster composite nanofibre membranes for rapid ultra-face detection of waterborne contaminants(CANDECT)	Dr. Pradeep T	Chemistry
51	Thematic Projects in Frontiers of Nano S&T (TPF-Nano) on Water Purification using Nanotechnology	Dr. Pradeep T	Chemistry
52	VAJRA Visiting Faculty - Dr.Pulickel M Ajayan	Dr. Pradeep T	Chemistry
53	Rolling Water Purifier - Roll Pure	Dr. Pradeep T	Chemistry
54	Atomically Precise Clusters Protected Porous Silica Shell with Biofunctionalisation	Dr. Pradeep T	Chemistry
55	Solubility of gases in ionic liquid or binary mixture of ionic liquid + ionic liquid	Dr. Ramesh Gardas	Chemistry
56	Thermodynamic and Spectroscopic Evaluation of Bimolecular Interactions Between Cholinium Based Amino Acid Ionic Liquids And Proteins - CSIR RA	Dr. Ramesh Gardas	Chemistry
57	Development of prototype ceria based water splitter to generate hydrogen using concentrated solar energy	Dr. Ranga Rao G	Chemistry
58	VAJRA Visiting Faculty - Dr.Raghavan Srinivasan	Dr. Balaji Narasimhan	Civil Engineering
59	Automated assembly of modular building structures: Control strategies and sensor placement	Dr. Benny Raphael	Civil Engineering
60	Accelerated Treatment of petroleum chemical sludge using coupled Physicochemical , Photochemical, Electrochemical and biological processes	Dr. Indumathi Manivannan Nambi	Civil Engineering
61	An Integrated-modular-onsite urine treatment unit for the recovery of green fertilizers and water	Dr. Indumathi Manivannan Nambi	Civil Engineering
62	Sustainable Solar Powered Wastewater Treatment Systems to Improve Hygiene and Sanitation in Schools by Adopting Water Recycling and Online Quality Monitoring	Dr. Ligy Philip	Civil Engineering
63	VAJRA Visiting Faculty - Dr.Narayanan Neithalath	Dr. Manu Santhanam	Civil Engineering
64	Integrated Rural-Urban Water Management for Climate Based Adaptions in Indian Cities	Dr. Mohan S	Civil Engineering

65	A Multi-Scale Approach for Characterization of Fatigue of Bituminous Materials	Dr. Murali Krishnan J	Civil Engineering
66	Development of Pre-packaged, High Performance Grout(HPG) using Locally Available Cementitious Materials for the Indian Post-Tensioned (PT) Concrete Industry	Dr. Radhakrishna G Pillai	Civil Engineering
67	Institutional Strengthening on Analysis of Dams, Foundatin, Retrofitting, Flood Forecasting and Related Issues	Dr. Rajagopal K	Civil Engineering
68	Recycling of Demolished Waste Concrete Using Solar Energy	Dr. Ravindra Gettu	Civil Engineering
69	Draft of Indian Standard Code of Practice for Seismic Design and Detailing of Steel Structures	Dr. Rupen Goswami	Civil Engineering
70	Characterizing the properties of biological aerosol particles under different environmental and seasonal conditions over the Indian tropical region: Assessment for possible climatic and health impacts	Dr. Sachin S Gunthe	Civil Engineering
71	Measurement of Background High Altitude Air Quality for Assessing the Regional Climate Change Impact	Dr. Sachin S Gunthe	Civil Engineering
72	Process analysis, observations and modeling- Integrated solutions for cleaner air for Delhi (PROMOTE)	Dr. Sachin S Gunthe	Civil Engineering
73	Low Cost Semiconductor and Optical Sensors based Urban Air Quality Monitoring Network System (SENSurAIR)	Dr. Shiva Nagendra S M	Civil Engineering
74	Toxicity and Personal Exposure Assessment of Fine Particulate Matter and VOCs at Air Pollution Hotspots under Changing Climatic Conditions	Dr. Shiva Nagendra S M	Civil Engineering
75	Design and Development of Navlc Receiver	Dr. Chester Rebeiro	Computer Science & Engineering
76	Text to Speech Generation with Chosen Accent and Noise Profiles for Aerospace and Industrial Domains	Dr. Hema A Murthy	Computer Science & Engineering
77	Towards a Theory of Convergence to Near Optimality in Swarm Intelligence Systems - DST DAAD	Dr. John Ebenezer Augustine	Computer Science & Engineering
78	VAJRA Visiting Faculty - Dr.Gopal Pandurangan	Dr. John Ebenezer Augustine	Computer Science & Engineering
79	RISC-V ISA Extensions for Code Density	Dr. Kamakoti V	Computer Science & Engineering
80	Explorations on Computational Problems for Polynomials Related to Arithmetic Circuit Complexity	Dr. Raghavendra Rao B V	Computer Science & Engineering
81	Descriptive Complexity of Parameterized Counting Problems - DST DAAD	Dr. Raghavendra Rao B V	Computer Science & Engineering
82	VAJRA Visiting Faculty - Dr.Srinivasan Parthasarathy	Dr. Ravindran B	Computer Science & Engineering
83	Efficiency of Secure Computation	Dr. Shweta Agrawal	Computer Science & Engineering
84	Design and Development of Novel, Highly Scalable, Ultrafast Phase Change Memory for Universal Memory Applications	Dr. Anbarasu Manivannan	Electrical Engineering
85	Development of a Suite of Indigenous Assistive Systems and Tools for the Disabled Community in India	Dr. Anil Prabhakar	Electrical Engineering
86	Free space optical link for line of sight communication near border areas	Dr. Anil Prabhakar	Electrical Engineering

87	Rare Earth Iron Garnet Epitaxial Films for Magneto Optical Switching of a Laser Beam	Dr. Anil Prabhakar	Electrical Engineering
88	Development of a Non-contact Type Conductivity Measurement System for Oceanographic applications	Dr. Bobby George	Electrical Engineering
89	IIT Madras Student Satellite (iitmsat)-Phase II	Dr. David Koilpillai	Electrical Engineering
90	VAJRA Visiting Faculty - Dr. Liam Paul Barry	Dr. Deepa Venkitesh	Electrical Engineering
91	Demonstration of Mode Division Multiplexed Communication System Few Mode Fibers	Dr. Deepa Venkitesh	Electrical Engineering
92	Reliability of SiGe channel pMOSFETs	Dr. Deleep R Nair	Electrical Engineering
93	Silicon Nanoporous Membranes (SNM) and Membrane Arrays for Continuous Ambulatory Peritoneal Dialysis (CAPD)	Dr. Enakshi Bhattacharya	Electrical Engineering
94	Support for testing and validation of e-auto at IIT Mandi	Dr. Jhunjhunwala Ashok	Electrical Engineering
95	Image analysis for enabling mesoscale study of mouse brain neuronal architecture	Dr. Mohanasankar S	Electrical Engineering
96	New Class of Intelligent Robotic Imaging System for Keyhole Surgeries	Dr. Mohanasankar S	Electrical Engineering
97	SONIO Suite: Ultrasound Image Guided Robotic Interventional Oncology Integrated Treatment System	Dr. Mohanasankar S	Electrical Engineering
98	Algorithms for Smart Grids-INSPIRE	Dr. NAVEEN KOLAR PURUSHOTHAMA	Electrical Engineering
99	Direct patterning of vortex generating diffractive optical elements on fibre tip using a focused ion beam	Dr. PRAMITHA V	Electrical Engineering
100	Investigations into underwater imaging	Dr. Rajagopalan A N	Electrical Engineering
101	A Foot-Drop Rehabilitation Device Offering Customized Treatment and Monitoring	Dr. Ramkrishna Pasumarthy	Electrical Engineering
102	Development of Polymer Nano-composites for EHVDC Lines and Diagnostics Adopting Laser Induced Breakdown Spectroscopy (LIBS)	Dr. Sarathi R	Electrical Engineering
103	Designing Energy Efficient Software- defined SERDES - Young Faculty Research Fellowship - Visvesvaraya Phd Scheme	Dr. Saurabh Saxena	Electrical Engineering
104	Synchronous Reluctance Motor Drive for Indian EV	Dr. Srirama Srinivas	Electrical Engineering
105	Soil Moistures Retrieval from Airborne SAR	Dr. Uday K Khankhoje	Electrical Engineering
106	Low cost High Resolution X-ray Imaging System with Image Intensifier Augmentation	Dr. Ganapathy Krishnamurthi	Engineering Design
107	Experimental and Numerical Studies on Cold Swaging of Zr Alloy Bars for End Cap Manufacturing in PHWR Fuel Assemblies	Dr. Jayaganthan	Engineering Design
108	Fabrication of SiC Targets and Pulsed Laser Deposition of Functional Thin Films - DST AMT	Dr. Nilesh Jayantilal Vasa	Engineering Design

109	Design for Environmental Excellence: Life cycle assessment of hybrid composite structures	Dr. Palaniappan Ramu	Engineering Design
110	Energy Generation Using VAWT-Focus On Incorporating Modular Design And Low rpm Generation	Dr. Palaniappan Ramu	Engineering Design
111	Design and development of a novel six degree of freedom robotic motion platform for medical rehabilitation	Dr. Sandipan Bandyopadhyay	Engineering Design
112	Developing a commercially viable real time driver behaviour and fatigue monitoring system	Dr. Venkatesh Balasubramanian	Engineering Design
113	Understanding Current Practices on Road Safety in Selected States and Sharing Integrated Approach of Tamil Nadu	Dr. Venkatesh Balasubramanian	Engineering Design
114	Personalized Life Skill Development for Enhancing Well-Being of Girl Students in Colleges in Tamilnadu and Kerala	Dr. Vijayalakshmi V	Management Studies
115	Equivalent bundles on toric variety	Dr. Arijit Dev	Mathematics
116	The structure of proper holomorphic mappings	Dr. JAIKRISHNAN JANARDHANAN	Mathematics
117	On the Castelnuovo-Mumford regularity of binomial edge ideals of graphs	Dr. Jayanthan A V	Mathematics
118	Fast Accurate numerical linear algebra libraries for elliptic partial differential equations	Dr. Sivaram Ambikasaran	Mathematics
119	Toward higher efficiencies and lower emissions using Indian-Origin biofuels: Developing a predictive CFD model with well-validated reduced combustion kinetics for device-scale applications	Dr. Anand K	Mechanical Engineering
120	Development of Smartphone Integrated Generic Microfluidic Devices for Rapid, Portable and Affordable Point-of-CARE Diagnostics	Dr. Ashis Kumar Sen	Mechanical Engineering
121	Development and evaluation of an in-situ high-temperature guided ultrasonic wave based corrosion-under-insulation detection system for nuclear power plant pipes (nGUMPS)	Dr. Krishnan Balasubramanian	Mechanical Engineering
122	Automated Robotic Air Coupled Ultrasonic Inspection for Composite Structures	Dr. Krishnan Balasubramanian	Mechanical Engineering
123	Super-Resolution Ultrasonic Imaging (SUI)	Dr. Krishnan Balasubramanian	Mechanical Engineering
124	Development of Ultrasonic Waveguide Sensors for the Measurement of Wide Ranges of Temperature and Rheology Potentially Simultaneously	Dr. Krishnan Balasubramanian	Mechanical Engineering
125	Severity quantification of defects in rolling element bearings	Dr. Piyush Shakya	Mechanical Engineering
126	Secondary air interaction with main flow in axial flow turbines	Dr. Prasad B V S S S	Mechanical Engineering
127	Performance improvement of high pressure compressor stage by optimizing vane diffuser geometries	Dr. Prasad B V S S S	Mechanical Engineering
128	Effect of variable width and rotation of vaneless diffusers on the performance of centrifugal compressors	Dr. Prasad B V S S S	Mechanical Engineering
129	Development of a prototype for dismantling time expired ammunitions with abrasive water	Dr. Ramesh Babu N	Mechanical Engineering
130	Machining and characterization of micro shaped holes in high temperature materials using hybrid machining process	Dr. Samuel G L	Mechanical Engineering

131	Experimental investigation of primary and secondary break-up of liquid jets in coaxial air-blast atomisation	Dr. Srikrishna Sahu	Mechanical Engineering
132	Concentrated Photovoltaic (CPV) Assisted Tandem Artificial Photosynthetic (AP) Device for Effective Solar-to-Chemical Conversion	Dr. Srinivas Reddy K	Mechanical Engineering
133	Sustainable technological solutions for energy efficiency in jaggery industry (STEEJ)	Dr. Srinivas Reddy K	Mechanical Engineering
134	Development of Cost Effective CPVT Solar Panel for Commercial Roof Top Market	Dr. Srinivas Reddy K	Mechanical Engineering
135	Solar Thermochemical Technologies for Green and Sustainable Development (SOLOGREEN)	Dr. Srinivas Reddy K	Mechanical Engineering
136	Development, commercialization and deployment of complete mobility solution (indoor & outdoor) for people with loco-motor disability	Dr. Sujatha Srinivasan	Mechanical Engineering
137	Development and Microformability Evaluation of Ultrafine Grained Materials(UFG) used for Aerospace Applications	Dr. Sushanta Kumar Panigrahi	Mechanical Engineering
138	Development of New Dephosphorisation Model for Primary Steel Making	Dr. Ajay Kumar Shukla	Metallurgical & Materials Engineering
139	Multicomponent entropy stabilised oxides: Synthesis, processing and characterisation of a new class of ceramic materials	Dr. Bhattacharya S S	Metallurgical & Materials Engineering
140	Performance of coatings under fretting wear conditions	Dr. Ganesh Sundara Raman	Metallurgical & Materials Engineering
141	High temperature fretting fatigue behaviour of aero-engine materials	Dr. Ganesh Sundara Raman	Metallurgical & Materials Engineering
142	Establishing Novel Erosive Wear Test Facility for Testing of Materials Used in Hydro - Turbine Components	Dr. Kamaraj M	Metallurgical & Materials Engineering
143	Reviving Bidricraft: A Study on Alternative Patination Process with a Focus from Fundamentals to Final Technology	Dr. Lakshman Neelakantan	Metallurgical & Materials Engineering
144	Advanced Manufacturing of New High Entropy Alloys -(DST-AISRF)	Dr. Murty B S	Metallurgical & Materials Engineering
145	Centre of Excellence in Advanced Materials and Manufacturing (CoE)	Dr. Murty B S	Metallurgical & Materials Engineering
146	Refractory High Entropy Alloys for High Temperature Structural Applications	Dr. Murty B S	Metallurgical & Materials Engineering
147	Alloy Development for Additive Manufacturing of Prostheses and Reconstructive Implants	Dr. Murugaiyan Amirthalingam	Metallurgical & Materials Engineering
148	Development of a Novel Electrolyte-free single layer solid oxide fuel cell	Dr. Ranjit Bauri	Metallurgical & Materials Engineering
149	Development and characterization of novel materials for capacitor-based energy storage devices	Dr. Ravikumar N V	Metallurgical & Materials Engineering
150	Development of fluidized bed reduction roasting process for slimes and low grade iron ores by utilizing thermal grade coal for improving their magnetic susceptibility properties and maximizing the iron recovery	Dr. Sabita Sarkar	Metallurgical & Materials Engineering
151	Studies on Functional Fatigue Behaviour of Shape Memory Alloys for Actuator and Sensor Applications	Dr. Sampath V	Metallurgical & Materials Engineering
152	Development of hot stamping process with low spring back for advanced high strength steels	Dr. Uday Chakkingal	Metallurgical & Materials Engineering

153	Development of atmospheric correction algorithm and up-scaling of in-situ measurements to derive hyperspectral remote sensing products over river Ganga	Dr. Shanmugam P	Ocean Engineering
154	Violent Wave - 3D floating body interaction	Dr. Sriram V	Ocean Engineering
155	Nonlinear Interaction between Extreme Waves and Floating Bodies with Deformable Structures	Dr. Sriram V	Ocean Engineering
156	Low Frequency Broadband Acoustic Mode Variability During the Philippine Sea Deep Water Experiments (2009-2011)	Dr. Tarun K Chandrayadula	Ocean Engineering
157	From charm to Beauty:Towards a Precision measurement of the CKM Angle γ - UKIERI	Dr. Jim Libby	Physics
158	Compact Muon solenod (CMS) Upgrade Operation and Utilization	Dr. Prafulla Kumar Behera	Physics
159	Multifunctional Plasmonic Nanosystems for Photodynamic Therapy	Dr. Prem B Bisht	Physics
160	High sensitivity piezo-resistive array of sensors based on flexible graphene-metal-polymer based composite layers	Dr. Ramaprabhu S	Physics
161	Durable Fuel Cells Based On Polymer Coated Nanocarbon Composites (DUPONT)	Dr. Ramaprabhu S	Physics
162	Development of grapheme based composite materials for solar energy applications	Dr. Somnath Chanda Roy	Physics
163	Design and Development of Sensors for the Detection of Explosive Agents	Dr. Somnath Chanda Roy	Physics
164	Examining the Imprints of Cosmic Magnetic Fields on Primordial Correlations	Dr. Sriramkumar L	Physics
165	High capacity Li-rich layered oxide cathode for quick charge battery: Enhancing the electrochemical performance for electric vehicle applications	Dr. Sudakar Chandran	Physics
166	Photovoltaic effect in oxygen vacancy-controlled $\text{Bi}_{1-x}\text{A}_x\text{FeO}_3$ -g(A= Ca^{2+} , K^+ , Cs^+) perovskite: Polarization modulated and nanoparticulate sensitized solar cells	Dr. Sudakar Chandran	Physics