

Sponsored Research Project Grant

Department of Chemistry – School of Energy Technology

Title of the Project	Investigators	Funding Agency	Sanctioned Project Grant (INR)	Duration (in Years)
Bacterial Enzyme-Responsive Hydrogel Dressings with Antibacterial Action, Redox-Modulating, and Hypoxia Inducible Proangiogenic Functionalities for the Treatment of <i>Pseudomonas Aeruginosa</i> and <i>Klebsiella Pneumoniae</i> Resistant Diabetic Wounds.	PI: Dr. Syed Shahabuddin	GSBTM	56.5 Lakhs	3
Clovoboranes: Synthesis, Characterization, and Process Development of 1-Isopropylcarborane	PI: Dr. B. Jebasingh, Co-PI: Dr. Syed Shahabuddin	DRDO	79.78 Lakhs	2
Tracing origin of high uranium in ground water by multiple isotope and chemical tracers	PI: Prof. Anirban Das Co-PI Prof. B.G. Desai	SERB/ANR F	31.74 Lakhs	3
Tracing early middle trassic marine biotic recovery and ecospace utilization	PI: Prof. B.G. Desai and Co-PI: Anirban Das	SERB/ANR F	42.85 Lakhs	3
Development of recycling process for the end-of-life PV modules and solar panels and recovery of life-threatening and precious metals	PI: Dr. Busupalli Balaganulu	CPRI	42.84 Lakhs	2
Earth abundant catalysts for the electrochemical conversion of levulinic acid to added value chemicals	PI: Dr. Prakash Chandra	SERB- TARE	18 Lakhs	3
Towards development of non-enzymatic cost-effective working electrode and strip sensor for detection of phenolic contaminants present in water	PI: Dr. Kalisadhan Mukherjee, Co-PI: Dr. Nandini Mukherjee, Dr. Paawan Sharma	SERB-DST	44 Lakhs	3

Fund for Improvement of S&T Infrastructure (FIST)	PI: Prof. Rajib Bandyopadhyay, Co-PI: Prof. Manoj Pandey, Dr. Nitin Chaudhari, Dr. Rama Gaur	DST-FIST	358 Lakhs	5
Development of MXene-Transition Metal Compound (sulfide and phosphide) Hetero Nanostructures as Electrocatalysts for Overall Water Splitting	PI: Dr. Nitin Chaudhari	DST under Indo-Korea bilateral International cooperation	36.74 Lakhs	3
Development of MXene (Ti ₃ C ₂)-Hierarchical Transition Metal Sulfide (MoS ₂) Hybrid Nanostructures as Electrocatalyst for Overall Water Splitting	PI: Dr. Nitin Chaudhari	CPRI	48.49 Lakhs	2