



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT (Autonomous Under VTU)

DEPARTMENT OF CHEMISTRY

S. No	Project Title	Faculty Name	Period (Year)	Amount (Rs)	Funding Agency	Project Status
1	Chemical functionalization of Si with 2D structures: Anode materials for Li-ion battery with significantly improved volumetric capacity.	Dr. Ramakrishnappa T (PI)	2018-2021	47 lakhs	DST – Nano Mission	Ongoing
2	Application of substitutionally doped graphyne, graphdiyne and penta-graphene nanomaterials in Lithium-ion battery: An ab initio study.	Dr. Jyoti Roy Choudhuri (PI)	2018 - 2021	18.3 lakhs	DST – SERB - TARE	Ongoing
3	Organic Electroactive Materials for High Performance Mg-Ion Rechargeable batteries.	Dr. Jyothi C Abbar (PI)	2019 - 2022	18.3 lakhs	DST – SERB - TARE	Ongoing
4	New 2-D carbon-based anode materials in Na-ion battery: Effects of heteroatom doping on Na storage capacity, charge mobility and open circuit voltage via ab initio simulation study	Dr. Jyoti Roy Choudhuri (Co-PI)	2019 - 2022	5 lakhs	DST – CRG	Ongoing
5	Edge functionalized graphene nanoplatelets with quinones as cathode materials for Li-ion battery applications.	Dr. K Sureshkumar (PI)	2021 - 2024	18.3 lakhs	DST – SERB - TARE	Ongoing