

To be Submitted Project (in -preparation)

Sr. No.	Faculty	Project Title	Funding Agency	PI/Co-PI	Partner if Co-PI	Duration (Yrs)	Approx Cost (in Lacs)
1	Dr. Busupalli Balanagulu	Linking molecular scale changes with macro-scale membrane dynamics to obtain integrated insights into synthetic cell mechanics	DST-startup research grant	PI	None	2	31
2	Dr. Ankur Solanki	Development of flexible perovskite based memristor devices for neuromorphic applications	SERB	PI	None	3	140
3	Dr. Sheetal Rawat	Studies with new co-doped multicomponent halide single crystal scintillators	DST	PI	Dr. Mohit Tyagi (BARC)	3	32
4	Dr. Tapan Pal	Metal-Organic Framework Composite for Removal of Cationic and Anionic Heavy Metals from Contaminated/Industrial Water	SERB	PI	None	2	15
5	Dr. Tapan Pal	Metal Organic Framework for CO ₂ sequestration	CSIR	PI	None	2	15
6	Dr. Tapan Pal	Synthesis of fluorescent molecule and their coordination chemistry towards biological application (cancerous, necrosis, Apoptosis)	DBT	PI	None	3	20
7	Prof. Rajib Bandyopadhyay	Conversion of ethanol to jet fuel over modified porous catalysts	CSIR	PI	Dr. Anil Sinha (IIP Dehradun)	3	40
8	Dr. Kalisadhan Mukherjee	Study on the gas complex oxide interaction	SERB	PI	TBD	3	60
9	Dr. Nitin Chaudhari	Fabrication and Characterization of 2D Hybrid MXene Nanostructured Materials for Future Energy Conversion and Storage	SERB	PI	None	3	60
10	Dr. Balamurali Krishna Mayya K.	Plasma rotation and impurity measurements using visible and x-ray spectroscopy and study of their effect on plasma confinement and transport in Aditya-U tokamak.	BRNS	PI	None	2	18

11	Dr. Mohendra Roy	Development of a smart telemedicine facility for auto characterization of pathological disorders	SERB	PI	Dr. Tapas Medhi (Tezpur Univ)	3	150
12	Dr. Mohendra Roy	An artificial neural network based fake image detection system	Bureau of Police Research & Development	PI	None	3	50