

# DEPARTMENT OF CHEMISTRY

## Indian Institute of Technology Madras

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### Ph.D. Admission - Jan.-May 2019

List of Projects available:

S.No.	Name of Faculty	Project Title
1	Prof. S. Baskaran	Oxidative Cyclization of Carbanion: Novel Synthesis of Carbo- and Heterocyclic Ring Systems.
2	Prof. Debashis Chakraborty	New catalysts for sustainable polymers and copolymers.
3	Dr. Ramesh Gardas	Synthesis of novel superbase ionic liquids and analysis of their interactions with CO <sub>2</sub> - A thermodynamic approach towards rational design of efficient absorbent for CO <sub>2</sub> capture and regeneration.
4	Prof. G. Ranga Rao	Development of efficient catalytic materials for hydrogen generation and CO <sub>2</sub> conversion.
5	Prof. S. Sankararaman/ Dr. R. Kothandaraman	Investigation of Stable Organic and Organometallic Radical Ions and Ions as electroactive species in Organic Redox Flow Batteries (RFBs) in Non-aqueous media.
6	Prof. P. Selvam	Development of PEM fuel-cell stacks for utilization of hydrogen from renewable sources.

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