CHARUSAT
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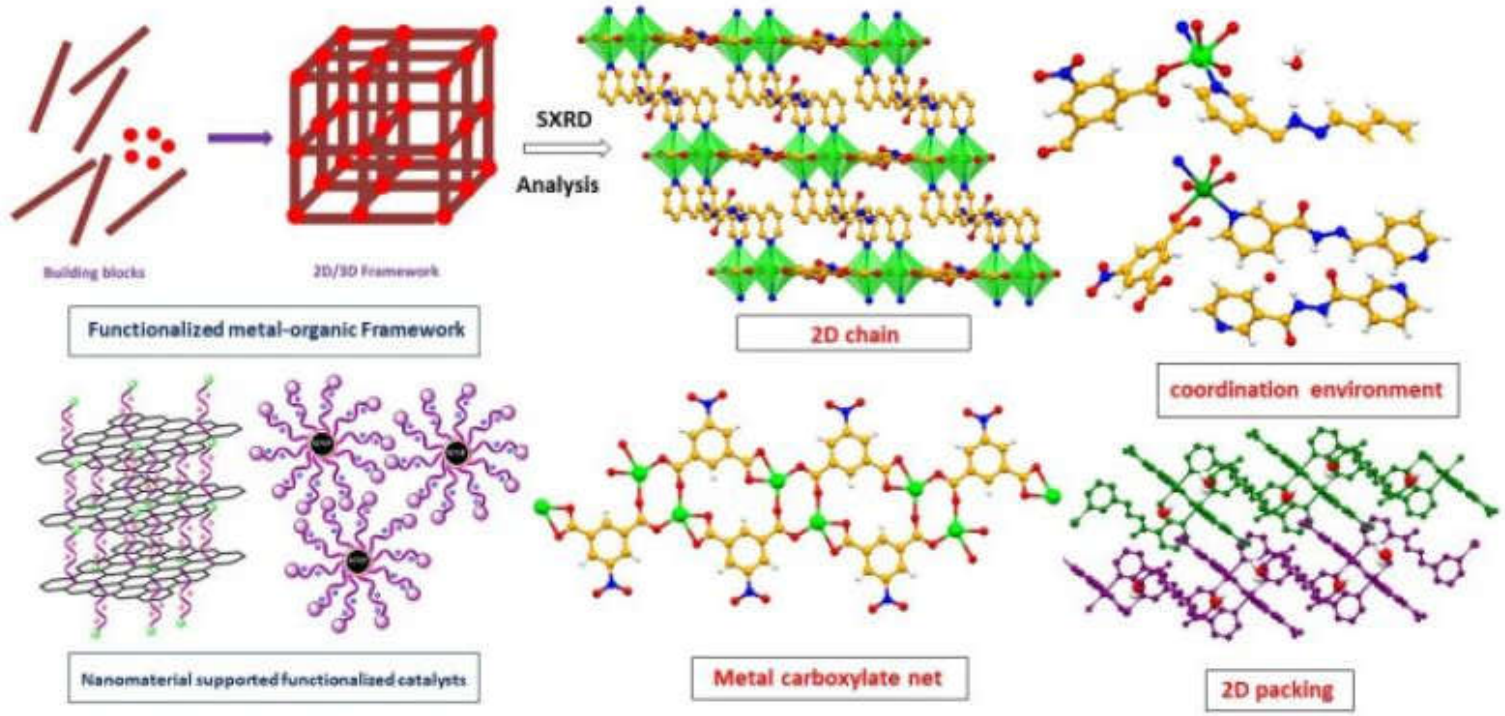
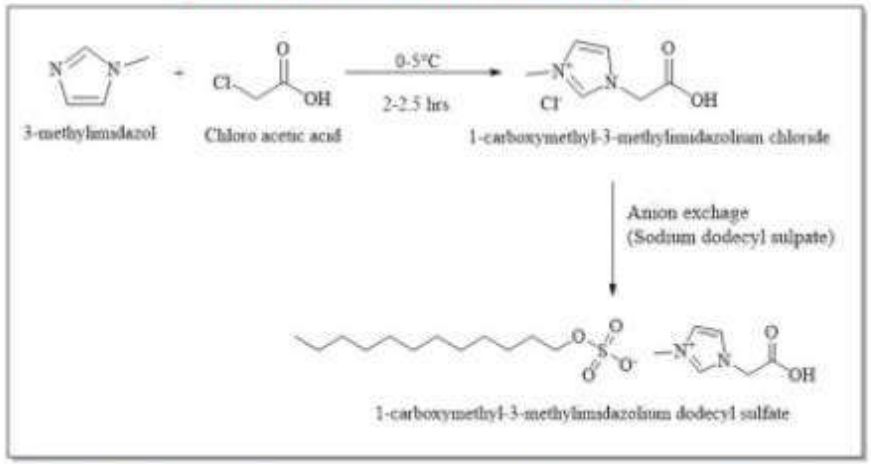


Design and Development of Advance Functional Materials

Synthesis of Surface Active Ionic Liquids

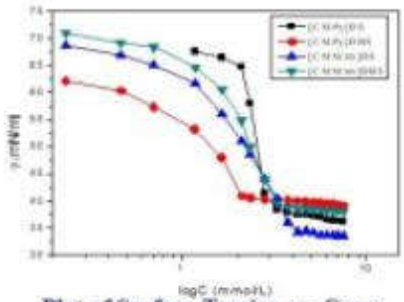


Highlight: The carboxy functionalized SAILs are expected to step forward for green surface-active agents

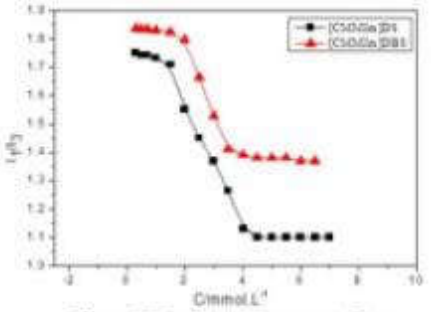
Determination of Physical Parameters

Critical Micellar Concentration (CMC), Aggregation Number
Thermodynamics of Micellization, Surface Active parameters

Characterization SAILs

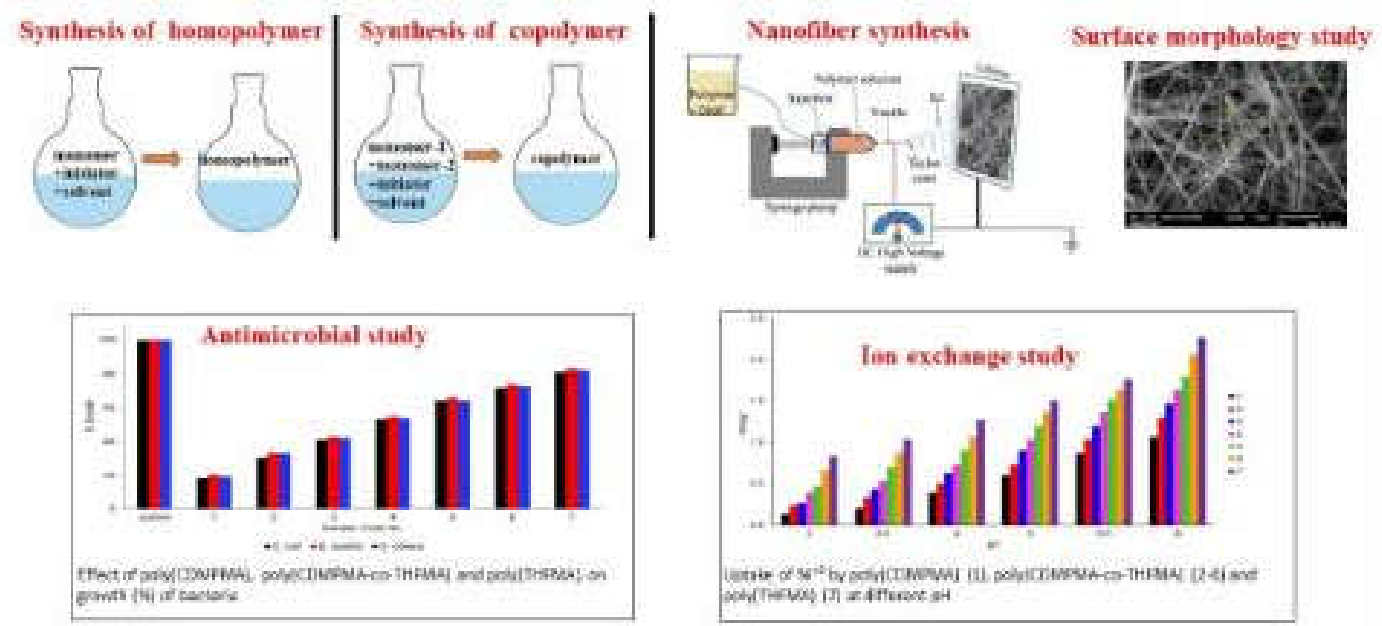


Plot of Surface Tension vs. Conc.



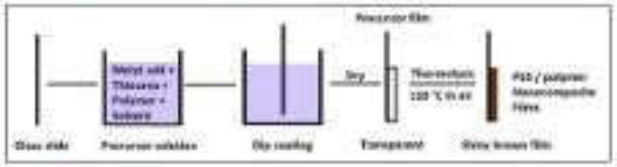
Plot of Fluorescence quenching

Design and Development of Surface Active Ionic Liquids

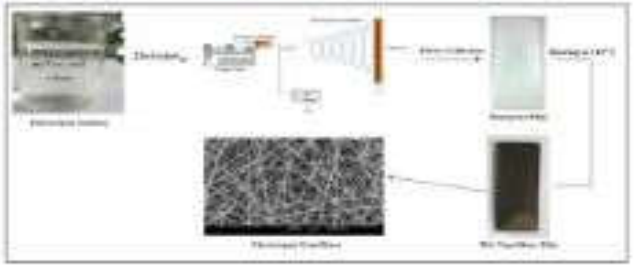


Development of Acrylate Polymer, Nanocomposites and Nanofibres

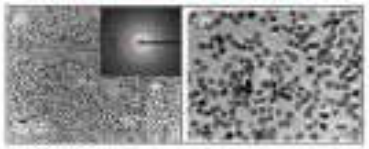
Development of single step in-situ protocol for NCs



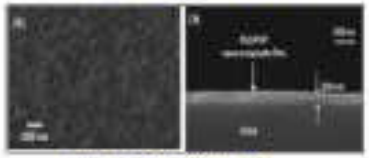
Metal/Polymer Nanofibers



Morphological study

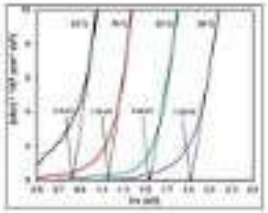


TEM of PbS/PVP NC

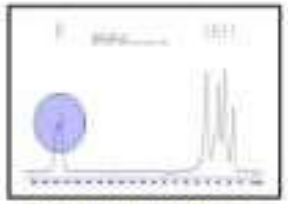


SEM of PbS/PVP NC

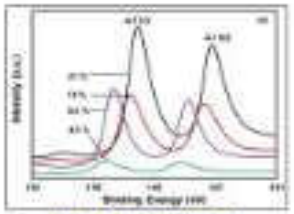
Optical Study



Interaction Study



^{13}C NMR of PbS/PVP NC



XPS of PbS/PVP NC

Nanocomposites and Nanofibers