

Synthesis of Conducting Polymers in Ionic Liquids

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Ionic liquids are used for the synthesis and use of conducting polymers. They can enhance electrode and redox processes which are essential for power storage systems. We have investigated the use of ionic liquids for the electrochemical synthesis of a range of conducting polymers.

Ionic liquids can dissolve a range of organic and inorganic materials which are essential for the synthesis of conducting polymers. We have investigated the synthesis of polypyrrole, polythiophene and polyarylethynylene using a range of ionic liquids and different electrode materials. The synthesis of these polymers has been investigated using cyclic voltammetry and spectroscopy.

Ionic liquids are used for the electrochemical synthesis of conducting polymers. We have reported the use of a number of different electrode materials to produce conducting polymer films. The effect of increasing morphology on the synthesis of these polymers is discussed.

References:

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