**Electrocoating of Polyaniline and Polypyrrole from Deep Eutectic Solution**

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| **Abstract**The high conductivity, chemical stability and simple synthesis of polyaniline and polypyrrole have given these polymers a wide range of applications in energy storage devices, chemical sensors and biosensors [1,2]. Polyaniline and polypyrrole, which are the conducting polymers, have been produced by electrochemical and chemical methods in aqueous and non-aqueous media [3,4]. However, the synthesis of these polymers in an aqueous medium may result in loss of electroactive sites of the final polymer films [5]. On the other hand, using a non-aqueous medium during electrochemical synthesis can improve not only electrochemical properties but also physical properties of the final polymer films [6]. Therefore, this study focused on the synthesis of polyaniline and polypyrrole from deep eutectic solvents under optimal conditions, and the findings show that the use of a non-aqueous medium provides more homogeneous and better electroactive polymer film production than aqueous media. **Keywords:** *Conducting polymers; Polynailine; Polypyrrole; Deep eutectic solvents* |
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