Surface morphology of thin polypyrrole films electrodeposited along aqueous electrolyte–organic liquid interface. Influence of temperature and solvent.

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Streszczenie

Nitrobenzene was found dissimilar to 1,2-dichloroethane and chloroform in electrodeposition of electronically conducting polypyrrole at a water/organic solvent junction by means of the three-phase electrode. Morphologies of the two sides of the potentiostatically deposited, freestanding thin polymer films differ distinctly which might be of interest for specific applications. A low temperature of the synthesis at the liquid–liquid junction is preferable for attaining the homogeneous surface morphologies of the polymer films.

Słowa kluczowe

Conducting polymers, Electrodeposition, Liquid–liquid interface, Three-phase electrode, SEM micrographs

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