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The Effect of Electrocatalytic Activity and Crystal Structure of PbO₂ Surfaces on Polyphenylene Oxide (PPO) Production in Acetonitrile

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Abstract: The crystallographic nature of PbO₂ films was changed by optimizing the electrolysis conditions in an electrodeposition solution of PbO₂. These PbO₂ films were then used to prepare PPO films. It was determined that α and β modifications, and relative degrees of crystallinity had profound effects on the electrocatalytic performance of PbO₂ films in the production PPO films.



Key Words: α -PbO₂, β -PbO₂, phenol, electrocatalysis, PPO

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