EDITORIAL

Conducting Polymers

In this series of works it is intended to place the emphasis on particular aspects related to the influence of the charge conduction process on practical applications of poly(*o*-aminophenol) film electrodes. In this regard, while some of them are mainly devoted to fundamental nature of the charge propagation at this polymer (relevant experiences and available models) other ones describe some interesting practical uses of poly(*o*-aminophenol) in the fields of bioelectrochemistry and electrocatalysis. These works can help to gain further insights into the charge-propagation process at poly(*o*-aminophenol), in such a way that the restrictive stability conditions of the polymer in its practical applications can be exploited more successfully. Even when poly(*o*-aminophenol) has been employed to improve the activity of some electrocatalysts in the oxidation of methanol, in the last paper of this series is demonstrated that polyaniline films with incorporated nanotubes show better electrocatalytic performance than poly(o-aminophenol) towards methanol oxidation. All these papers could be interesting not only to the colleagues who have worked for years in basic research related to conducting properties, but also to readers interested in biosensors for clinical and industrial applications, where polymers operate under limit conditions, which can affect their conductivity and then, reactivation of the polymers becomes necessary.

Sub-Themes

Effects of electrolyte solution, pH and potential, on the charge conduction process and practical applications of poly(o-aminophenol).

General Keywords

Poly(o-aminophenol), Charge-transfer processes, Practical applications, Methanol oxidation, Polyaniline.

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