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Effect of scan rate on isopropanol electrooxidation onto Pt-Sn electrode

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Abstract: This article presents the galvanostatic preparation of graphite supported Platinum-Tin (PtSn) electrode for electrooxidation study. The electrode was characterized by SEM and EDX. Investigation of electrooxidation of isopropanol onto Pt-Sn electrode was carried out by applying cyclic voltammetry technique at different scan rates. A three electrode setup was used for this investigation. It is seen from the investigation that anodic peak potentials (1st and 2nd oxidation peak) as well as the corresponding peak currents changed with scan rate.

Keywords: Isopropanol, electrooxidation, cyclic voltammetry.

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