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Studies of kinetic parameters of the zinc sulfate solution in the presence of an electrochemical system lignosulfonate

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Abstract

Electrochemical studies were conducted of the effect of lignosulfonate additives (20 to 80 mg/l) on the electrode processes involving zinc, using galvanostatic and potentiostatic measurement. The data transfer number, the exchange current, polarization values for electrolytes with different concentrations of zinc were obtained in the presence or absence of sulfuric acid, and with stirring without stirring. Effect lignosulfonate zinc electrolysis process in neutral and acidic electrolytes due to its chemical and structural properties.