

Adsorption kinetics of sulfide ions on the carbon surface

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Abstract

In the work, the chemical structure of the surface of carbon materials was investigated. Kinetic curves of sulfide ions adsorption for all studied materials were obtained. Time of adsorption equilibrium onset was determined. The dependence of sulfide ions equilibrium adsorption from the amount of alkaline groups on the surface of the carbon material was detected. The sulfide ions rate of adsorption in all taken materials was calculated.