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The influence of asparagine on electrokinetic and adsorption properties of the iron(III) and nickel(II) oxides

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Abstract

Electrosurface properties of NiO and Fe_2O_3 oxides have been investigated in water solutions of asparagine depending on its concentration, pH of solutions and time of adsorption. It has been found that asparagine is specifically adsorbed on the surface of Fe_2O_3 and NiO. It has been demonstrated that the adsorption of anionic forms asparagine at Fe_2O_3 and cationic forms at NiO predominates.