

Study of electrokinetic properties of tantalum nanoparticles in aqueous solutions

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Abstract

In the work electro-kinetic potential of tantalum nanoparticles in aqueous solution have been defined depending on their concentration and pH of the media.

Negative charge of tantalum nanoparticles has been determined in the range of pH 2.7-10.2 and mass fraction 0.1-0.5%. The surface layer of nanoparticles absorbs hydroxide, sulfate and carbonate ions.