

POSSIBILITIES FOR THE PREPARATION OF CERAMIC MATERIALS INCORPORATING GRAPHENE AND CARBONATE NANOSTRUCTURES¹

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Abstract: On world scale, more and more efforts are devoted to the preparation of new ceramic materials which combine the unique functional (electric, magnetic, mechanical, etc.) properties of the nanocomposite material with the properties of the ceramic materials. By the production of ceramic materials with specific properties, nanotechnologies play an important role for the preparation of the initial components in finely dispersed state which would not only intensify the synthesis process but would also result in improvement and reproducibility of product properties. The present paper presents a review on the possibilities for preparation of ceramic materials containing graphene and carbonate nanostructures.

Keywords: nanotechnology, ceramic materials, graphene nanostructures, carbonate nanoparticles.

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