

عنوان مقاله:

COATING THE SURFACE OF CARBON NANOTUBES WITH ALUMINA NANOPARTICLES

محل انتشار:

اولین همایش بین المللی و ششمین همایش مشترک انجمن مهندسی متالورژی ایران (سال: 1391)

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خلاصه مقاله:

The surface of CNT was coated with alumina nanoparticles, applying sol gel method. Raw materials were Multiwalled carbo nanotubes, SDS, and aluminium alkoxide. X-ray diffraction (XRD), thermal gravimetry (TG), and Field Emission Scanning Electron Microscopy (FESEM) were used as characterization techniques. According to the thermal and phase analyses, decomposition of the boehmite and its complete transformation to gamma alumina were detected at the 380 and 450 °C, respectively. Electron microscopy investigations showed that alumina nanoparticles coated on CNT were about 20 nm

کلمات کلیدی:

carbon nanotubes, coating, sol gel, alumina

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