

عنوان مقاله:

Fabrication of Stable, Transparent and Superhydrophobic nanocomposite With Polymethylstyrene Functionalized Carbon nanotubes

محل انتشار:

دهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1391)

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خلاصه مقاله:

Stable, transparent and superhydrophobic carbon nanotubes (CNT) nanocomposite films were fabricated by one-step spray casting process using the 4-Methylstyrene functionalized CNTs, which were prepared by living free radical polymerization. Superhydrophobic CNTs have been fabricated using functionalized CNTs, such as covalent attachment [1] and noncovalent adsorption or wrapping of various long-chain hydrophobic molecules [2] on the surface of CNTs, which can reduce the surface energy of the CNT surface. (scheme 1)

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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