

عنوان مقاله:

SYNTHESIS AND OPTICAL CHARACTERIZATION OF CNT/TIO₂ COMPOSITE POLYMER NANOFIBERS

محل انتشار:

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

تعداد صفحات اصل مقاله: 1

نویسندگان:

Neda Moazezi - *Phphysics Department, Faculty of Basic Sciences, Tarbiat Modares University, P.O.Box: 14115/175, Tehran, Iran*
Phphysics Department, Faculty of Basic Sciences, Islamic Azad University, Tehran Central Branch, Tehran, Iran

Rasoul Malekfar - *Phphysics Department, Faculty of Basic Sciences, Tarbiat Modares University, P.O.Box: 14115/175, Tehran, Iran*

Shervin Ahmadi - *Department of Composite Engineering and Processing, Iran Polymer Institute, P.O.Box: 14965/115, Tehran, Iran*

Alireza Moazezi - *Materials Science and Engineering, Islamic Azad University, Karaj Branch, Karaj, Iran*

خلاصه مقاله:

Electrospinning process is one of the most modern methods to produce polymer fibers, which utilizes electrical forces to produce polymer fibers with diameters ranging nanometers using polymer solutions. electrospun nanofibers have been widely use in various applications, such as filtration, optical and chemical sensors, photocatalytic applications, electrode materials and biological scaffolds. In this article nanocomposites and nanofibers based on CNT, TiO₂, polyvinyl pyrrolidone (PVP) and conductive polymer, polyaniline (PANI) were synthesized and developed for photocatalytic applications. The presence of PANI increases the conductivity of nanofibers. CNT-TiO₂ nanofibers have potential applications not only in polluted water treatment but also in other areas such as sensors and solar cells .[[1

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/579746>

