

عنوان مقاله:

The Morphology and Wettability of PDLLA/Al₂O₃ Nanocomposite Scaffolds

محل انتشار:

کنفرانس بین المللی فرآورش پلیمرها (سال: 1390)

تعداد صفحات اصل مقاله: 4

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خلاصه مقاله:

Electrospinning has become versatile method for fabrication of nanofibrous mats. In this work nanocomposite scaffolds were fabricated via electrospinning of poly(D,L- Lactid) acid incorporated alumina nanoparticles. The Scanning electron microscopy (SEM) was employed to analyze the diameter, uniformity and orientation of nanofibers. The scaffolds showed highly porous microstructures with average fiber diameters of 182 and 201 nm for neat PDLLA and PDLLA/3wt% of nano-Al₂O₃, respectively. The results of water contact angle measurement and water absorption test showed that the hydrophilicity of scaffolds has been decreased by addition of hydrophilic nanoparticles

کلمات کلیدی:

Electrospinning, Nanocomposite, Tubular Scaffold, PDLLA, Al₂O₃

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