

Polyaniline Poly Caprolactone Composite Electrospun

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Polyaniline Poly Caprolactone Composite Electrospun

Electrospinning was utilized to synthesize a polyaniline (PANI)/poly(ϵ -caprolactone) (PCL) composite in the form of nanofibers to examine its gas sensing performance. Electrical conductivity of the composite nanofibers was tailored by secondary doping with protonic acids including hydrochloride (HCl) or camphorsulfonic acid (HCSA).

Polyaniline/poly(ϵ -caprolactone) composite electrospun ...

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Polyaniline/poly(-caprolactone) composite electrospun ...

Polyaniline/poly(ϵ -caprolactone) composite electrospun nanofiber-based gas sensors: optimization of sensing properties by dopants and doping concentration

Polyaniline/poly(ϵ -caprolactone) composite electrospun ...

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Polyaniline Poly Caprolactone Composite Electrospun

Poly(ϵ -caprolactone) (PCL) nanofibers loaded with polyaniline coated titanium oxide nanoparticles (TiO₂/PANI) and simvastatin (SIM) drug were produced by the electrospinning method. As-prepared samples were investigated in terms of morphology characterization, mechanical properties, physicochemical properties, drug release, biomimetic mineralization, and biocompatibility.

Polyaniline-coated titanium oxide nanoparticles and ...

The study herein aims at optimizing and characterizing NSC-compatible, electrically conductive poly (capro- ϵ -lactone) (PCL)-polyaniline (PANI) electrospun scaffolds for neural tissue engineering applications. Furthermore, the optimal PANI to PCL ratio required for ideal electroconductivity properties is still not well understood.

Polyaniline-polycaprolactone blended nanofibers for neural ...

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Conclusions: Our results suggested PANI/PCL/Gel electrospun nanofibers as a biocompatible composite for the regenerative medicine. Keywords: Tissue Engineering; Polyaniline; Poly-Caprolactone; Gelatin; Electrospun Nanofibers.

Design and Fabrication of Poly-Aniline/Poly- Caprolactone ...

Abstract. Poly (ϵ -caprolactone) (PCL) is one of the ecofriendly biodegradable polymers with excellent moldability but with rather low mechanical properties especially for the industrial and biomedical use. In this research, to overcome the problem, the two types of cellulose nanofibers, the cellulose acetate nanofibers (CA-NF) and the cellulose nanofibers (C-NF), were composited into PCL for the enhancement of the mechanical properties of PCL.

Structures and mechanical properties of electrospun ...

Composite nanofibers made of a polyaniline-based polymer blend and different thiol-capped metal nanoparticles were prepared using ex situ synthesis and electrospinning technique. The effects of the nanoparticle composition and chemical structure on the electrical properties of the nanocomposites were investigated.

Electrospun Polyaniline-Based Composite Nanofibers: Tuning ...

Accelerated calcification in electrically conductive polymer composites comprised of poly(ϵ -caprolactone), polyaniline, and bioactive mesoporous silicon Melanie A. Whitehead Department of Chemistry, Texas Christian University, Fort Worth, Texas 76129

Accelerated calcification in electrically conductive ...

Electrospun nanofibers of a polyaniline (PANI)/ (+)-camphor-10-sulfonic acid (HCSA)/poly (ethylene oxide) (PEO) composite doped with different variants of graphene oxide (GO) were fabricated and evaluated as chemiresistor gas sensors operating at room temperature.

Tunable Enhancement of a Graphene/Polyaniline/Poly ...

PCL, chitosan, and PCL/chitosan nanofibers with average fiber diameters of 630, 450, and 190 nm, respectively, were fabricated using an electrospinning process. The surface chemistry of the fabricated nanofibers was determined using Fourier transform infrared spectroscopy and X-ray photoelectron spectroscopy.

Electrospun Biocomposite Nanofibrous Scaffolds for Neural ...

Kim TG, Park TG. Biomimicking extracellular matrix: cell adhesive RGD peptide modified electrospun poly(D,L-lactic-co-glycolic acid) nanofiber mesh. Tissue Engineering. 2006; 12:221-33. Kwon IK, Matsuda T. Co-electrospun nanofiber fabrics of poly(L-lactide-co-E-caprolactone) with type I collagen or heparin with type I collagen or heparin.

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