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.

Polyaniline/poly(ε-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).

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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 ...
Electrospun polymer nanofibers with high surface area to volume ratio and tunable characteristic are formed through the application of strong electrostatic field. Electrospinning has been identified as a straight forward and viable technique to produce nanofibers from polymer solution as their initial precursor. These nanofiber materials have attracted attention of researchers due to their ...

A Review of Electrospun Conductive Polyaniline Based ...
Abstract. 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 ...
In this work, electrically conductive polyaniline (PAni) doped with camphorsulfonic acid (CPSA) is blended with poly(L -lactide-co-ε-caprolactone) (PLCL), and then electrospun to prepare uniform nanofibers.The CPSA-PAni/PLCL nanofibers show a smooth fiber structure without coarse lumps or beads and consistent fiber diameters (which range from 100 to 700 nm) even with an increase in ...

Development of Electroactive and Elastic Nanofibers that ...
Different composition ratios of polyaniline (PANI)/poly(ε-caprolactone) (PCL) nanofibers were produced by electrospinning, and their structure and chemistry were characterized. The PANI/PCL electrospun composite nanofibers were configured in a chemiresistor and subjected to different analytes, including H 2 O vapor, NH 3, and NO 2.

Composition-dependent sensing mechanism of electrospun ...
As two typical aliphatic polyesters, biodegradable poly(ε-caprolactone) (PCL) and polylactide (PLA) show quite different mechanical properties. Compounding them together is therefore an interesting topic on the fabrication of biomaterials with tailorable properties. The composite technology was used in this work to prepare a new PCL/PLA system, the green PCL composites reinforced with the ...

Green Poly(ε-caprolactone) Composites Reinforced with ...
The crystalline morphologies of electrospun random and aligned poly(ε-caprolactone) (PCL) nanofibers, obtained by a plate collector and a two-parallel-conductive-plate collector, respectively, were characterized by scanning electron microscopy (SEM), differential scanning calorimetry (DSC), two-dimensional wide-angle X-ray diffraction (2D WAXD), and polarized Fourier transform infrared ...

Crystalline Morphology of Electrospun Poly(ε-caprolactone ...
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. This study confirmed that Brust’s procedure is an effective method for ...

Electrospun Polyaniline-Based Composite Nanofibers: Tuning ...

Materials and Methods: In this study, PANi/PCL/Gel composite nanofibrous scaffold was fabricated by electrospinning. Plasma treatment technique was used for the surface modification of nanofibers. Contact angle technique and scanning electron microscopy (SEM) were used for characterization of electrospun nanofibers.

Design and Fabrication of Poly-Aniline/Poly- Caprolactone ...
It is a well-known fact that all the tissues and organs such as bone, tendons, cartilage, skin, and dentine of living beings comprise fibrous structures in the nanometer range. This chapter attempts to make an overview of the recent advances in electrospun polymeric composite NFs for biomedical applications.

Biomedical Applications of Electrospun Polymer Composite ...
nanofibers of PANI (CSA) dispersed in Poly Methyl Methacrylate (PMMA) solution in chloroform. The morphology of the electrospun conducting PMMA-PANI composite fibers is studied using Scanning Electron Microscopy (SEM) and Atomic Force Microscopy (AFM). The DC and AC conductivities of these fibers are measured and the results are discussed.

Electrical Properties of Electrospun Fibers of PANI- PMMA ...
@inproceedings{Mahdi2018DesignAF, title={Design and Fabrication of PolyAniline / Poly-Caprolactone / Gelatin Composite Nano-Scaffolds and Study of Biocompatibility of NanoFibers}, author={Ali Mahdi and Hamid Reza Javadi and Marzieh Ghalasi and Mahdi Kamali and Ali. and Salimi}, year={2018 ...

Design and Fabrication of PolyAniline / Poly-Caprolactone ...
Fabrication of Poly(Caprolactone) Nanofibers by Electrospinning. Athira K. S. 1,, Pallab Sanpui 1, Kaushik Chatterjee 1 1 Biomaterials and Tissue Engineering Laboratory, Department of Materials Engineering, Indian Institute of Science, Bangalore, India

Fabrication of Poly(Caprolactone) Nanofibers by ...
Kristin D. McKeon-Fischer, Daniel P. Browe, Ronke M. Olabisi and Joseph W. Freeman, Poly(3,4-ethylenedioxythiophene) nanoparticle and poly(ε-caprolactone) electrospun scaffold characterization for skeletal muscle regeneration, Journal of Biomedical Materials Research Part A, 103, 11, (3633-3641), (2015).

Characterization of electrospun poly(L-lactide) and gold ...
Biomimetic and bioactive nanofibrous scaffolds from electrospun composite nanofibers. ... in a different strategy, Li et al fabricated polyaniline ... Pham QP, Sharma U, et al. Electrospun poly(-caprolactone) microfiber and multilayer nanofiber/microfiber scaffolds: characterization of scaffolds and measurement of cellular infiltration. ...