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1. Poly(vinyl alcohol)-assisted dispersion of polyaniline nanofiber for electrochemical applications Full Text
By Hung, Chi-Chang; Wu, Chen-Hao; Yang, Chien-Hsin; Wei, Yen; Wen, Ten-Chin
From Journal of Materials Research (2011), 26(23), 2980-2986. | Language: English, Database: CAPLUS
Polyaniline nanofiber (PANF) was synthesized using interfacial polymn. and was mixed with aq. soln. of poly(vinyl alc.) (PVA) to form PANF-PVA binaries. The PANF suspension in water could be stabilized by PVA for more than 3 mo due to the hydrogen bonding interaction between PANF and PVA. The specific characteristics of PANF-PVA films was checked by SEM, cond. measurement, thermogravimetric anal., Fourier transform IR spectroscopy, and cyclic voltammetry. The composite film contained 25 wt% PVA (PANF-PVA25) casting at 105 °C was found to have a porous structure and good cond. The presence ...

2. Composite nanofiber lithium-ion battery separator and its preparation method Full Text
By Zhao, Juyang; Gu, Chuanming; Xu, Changcheng
From Faming Zhuanli Shenqing (2011), CN 102299287 A 20111229. | Language: Chinese, Database: CAPLUS
A composite nanofiber lithium-ion battery separator and its prepn. method are provided. The battery separator is a composite of polyolefin (polyethylene or polypropylene) microporous film and polymer (polyvinylidene fluoride or polyacrylonitrile) nanofiber film consisting of fibers. The battery separator has thickness of 20-60 µm, longitudinal shrinkage rate less than 1%, porosity of 35-70% and fiber diam. of 3 nm-4 µm. The inventive battery separator has good wettability, permeability and temp. resistance, and interface property between the inventive battery separator and pos. and neg. ele...

3. Micro and nanofiber nonwoven spunbonded fabric Full Text
By Pourdeyhimi, Behnam; Fedorova, Nataliya V.; Sharp, Stephen R.
From U.S. Pat. Appl. Publ. (2011), US 20110318986 A1 20111229. | Language: English, Database: CAPLUS
The invention provides methods for the prepn. of nonwoven spunbonded fabrics and various materials prepd. using such spunbonded fabrics. The method generally comprises extruding multicomponent fibers having an islands in the sea configuration such that upon removal of the sea component, the island components remain as micro- and nanofibers. The method further comprises mech. entangling the multicomponent fibers to provide a nonwoven spunbonded fabric exhibiting superior strength and durability without the need for thermal bonding.

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Fong Hao	16
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Beijing University of Chemical Technology, Peop Rep China	21
National University of	