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Membranes

Chemistry in a spinneret – Formation of hollow fiber membranes with a cross-linked polyelectrolyte separation layer 1.

Introduction. Hollow fiber membranes for nanofiltration represent a promising alternative to flat-sheet membranes... 2.

Materials and methods. The following subsections list the ...

Chemistry in a spinneret – Formation of hollow fiber ...

Hollow fiber membranes (HFMs) are a class of artificial membranes containing a semi-permeable barrier in the form of a hollow fiber. Originally developed in the 1960s for reverse osmosis applications,

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Hollow fiber membranes have since become prevalent in water treatment, desalination, cell culture, medicine, and tissue engineering.

Hollow fiber membrane - Wikipedia

A quantitative analysis is presented, which describes the ternary diffusion process encountered in the formation of polymeric hollow-fiber membranes by the isothermal wet spinning process.

Formation of Hollow Fibre MD Membranes | Request PDF

Hollow fiber filtration utilizes thousands of long, porous filaments ranging from 1-3.5mm wide, that are potted in place in a PVC shell. Each filament is very narrow in diameter and flexible. Hollow fiber can find uses in all types of filtration, ranging from microfiltration to reverse osmosis.

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Hollow Fiber Membranes - Snyder Filtration

Ultra-thin and defect-free polyimide hollow fiber membranes were formed using a dry-jet, wet quench process with spin dopes both with and without volatile solvents. Fibers were spun from the commercially available polyimide, Matrimid ® 5218, and were precipitated in an aqueous quench bath. Spin dopes comprised volatile and non-volatile ...

Formation of defect-free polyimide hollow fiber membranes ...

In the deionized water/acetone system, a porous layer was formed on the outer surface of modified PP hollow fiber membranes compared with the pristine membrane. Furthermore, when the weight ratio of deionized water and acetone in the mixed solvent was less than 5:5, the number of interconnected pores increased

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with water content, whereas the size gradually diminished (see Fig. S4).

Fabrication of a novel hollow fiber composite membrane ...

The PMMOF enables transformation of a polymer hollow fiber membrane (HFM) module to a mixed-matrix hollow fiber membrane (MMHFM) module [23].

Transforming polymer hollow fiber membrane modules to ...

Microfiber aligned hollow fiber membranes were prepared via a polymer blend solution consisting of poly (vinylidene fluoride) with polysulfone in PolarClean® as a green solvent. The microfiber structure appeared only when controlled phase separation was performed with polymer blends.

Microfiber aligned hollow fiber

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Deposited With Multicelled membranes from immiscible ...

The formation mechanism of hollow fiber membranes spun through single orifice spinneret was explained by combination of foaming reaction and conventional non-solvent induced phase separation.

Structure of the hollow fiber membranes was examined by scanning electronic microscopy and BET analysis. The hollow fiber membranes have excellent ...

Polymeric hollow fiber membranes prepared by dual pore ...

Hollow fiber membrane modules are mainly in the form of cylinder module and hollow fiber flat-plate membrane module, which can be assembled by hollow fiber membrane bundle comprising a large number of hollow fiber membranes (shown in Fig. 1). The large surface area and high packing density contribute to a higher productivity, and the hollow fiber

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Deposited With Multilayered membranes offer a higher energy efficiency in achieving complete mixing in module.

Progress on polymeric hollow fiber membrane preparation ...

Dual-layer hollow fiber membranes were produced from blends of Ultem and polymer of intrinsic microporosity (PIM-1) with enhanced gas permeance. The effects of spinning parameters (take-up speed and air gap distance) on gas separation performance were investigated based on the pristine Ultem.

Formation of defect-free polyetherimide/PIM-1 hollow fiber ...

Hollow fiber membranes were fabricated from PES (E6020P, M W 53 K gmol⁻¹, BASF, Germany) and SPSf (M W 90–95 K gmol⁻¹, 20% sulfonation degree, FHM China). By blending PES and SPSf with N-

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Doped With NMP, 99.5%, Merck, Germany) as the solvent and polyethylene glycol (PEG) 400 (M W 400 g mol⁻¹, Merck) as the non-solvent, homogeneous dope solutions for hollow fiber spinning were achieved.

Design of nanofiltration (NF) hollow fiber membranes made ...

Asymmetric Torlon® polyamide-imide hollow fiber membranes with a defect-free selective skin layer of 410 nm were formed by Kosuri and Koros by adding THF in the spinning dope. Defect-free as-spun Torlon® hollow fibers were successfully produced by Peng et al. [17] from a simple polymer/solvent spinning dope, resulting in ultra-thin dense layers of around 54 nm.

Fabrication of Defect-Free P84 ® Polyimide Hollow Fiber ...

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In this study, P84® asymmetric hollow fiber membranes with a highly thin (~56 nm) defect-free skin were successfully fabricated by fine tuning the dope composition and spinning parameters using volatile additive (tetrahydrofuran, THF) as key parameters.

Fabrication of Defect-Free P84® Polyimide Hollow Fiber ...

The developed hollow fiber membranes show excellent stability over the 750 h duration of the tests and therefore hold promise for application in oxyfuel combustion processes and membrane reactors. AB - Ce_{0.8}Sm_{0.2}O_{1.9}?La_{0.8}Sr_{0.2}Cr_{0.5}Fe_{0.5}O₃?? (SDC-LSCrF) composite hollow fiber membranes were prepared by phase inversion followed by sintering.

Ce_{0.8}Sm_{0.2}O_{1.9}-La_{0.8}Sr_{0.2}Cr_{0.5}Fe_{0.5}

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O3?? Dual-Phase Hollow ...

The TIPS membrane formation process consists of forming a homogeneous solution of polymer and diluent and extruding the solution through a spinneret to form a hollow fiber. The fiber is cooled in an air gap followed by a quench bath, which results in phase separation of the solution into a diluent-rich phase dispersed in a continuous polymer-rich liquid phase.

Formation of anisotropic hollow-fiber membranes via ...

Melt spinning and stretching (MS/S) method was proposed for preparing poly(vinylidene fluoride) (PVDF) hollow fiber membranes with excellent mechanical properties.

Structure formation and characterization of PVDF hollow ...

We describe a route for processing MOF

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membranes in polymeric hollow fibers,
combining a two-solvent interfacial
approach for positional control over
membrane formation (at inner and outer...

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