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Chitosan Aerogels Exhibiting High Surface Area for Biomedical Application: Preparation, Characterization, and Antibacterial Study

Kumari Rinki, Pradip K. Dutta , Andrew J. Hunt, Duncan J. Macquarrie & James H. Clark

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Related Research Data

A kinetic study on the thermal degradation of N,N,N-trimethylchitosan

Source: Polymer Degradation and Stability

Chemical synthesis and characterization of N,N,N-trimethylchitosan

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Stimuli-responsive degradation of N,N,N-trimethylchitosan

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Porosity and degradation of N,N,N-trimethylchitosan

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Synthesis and degradation of N,N,N-trimethylchitosan based

precipitated chitosan

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Aluminum-based degradation of N,N,N-trimethylchitosan

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Investigation of N,N,N-trimethylchitosan based

Source: Journal of Polymer Science: Part A: Polymer Chemistry

Influence of N,N,N-trimethylchitosan on Bio-

Composites

Source: Polymer-Plastics Technology and Engineering

Processing of Polymers with Supercritical Fluids

Source: Chemical Engineering & Technology

Polymerizations in Supercritical Carbon Dioxide

Source: Chemical Reviews

The Effect of Pressure and Temperature on Supercritical CO₂ Dyeing of PET-Dyeing with Mixtures of Dyes

Source: International Journal of Polymeric Materials

Preparation of Chitosan Based Scaffolds Using Supercritical Carbon Dioxide

Source: Macromolecular Symposia

Alginate aerogels as adsorbents of polar molecules from liquid hydrocarbons: Hexanol as probe molecule

Source: Carbohydrate Polymers

Chitosan-Based Aerogels with High Adsorption Performance

Source: The Journal of Physical Chemistry B

Progress in polymer science

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Preparation and properties of highly soluble chitosan-l-glutamic acid aerogel derivative

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Preparation of chitosan scaffolds loaded with dexamethasone for tissue engineering applications using supercritical fluid technology

Source: European Polymer Journal

Supercritical CO₂ dried chitosan: an efficient intrinsic heterogeneous catalyst in fine chem

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Chitin and carbon aerogels from chitin alcogels

Source: Carbohydrate Polymers

Reporting physisorption data for gas/solid systems with special reference to the determination of surface area and porosity (Recommendations 1984)

Source: Pure and Applied Chemistry

Methods to Analyse the Texture of Alginate Aerogel Microspheres

Source: Macromolecular Symposia

Basic studies on bioadhesive delivery systems for peptide and protein drugs

Source: International Journal of Pharmaceutics

Modification of Poly(Vinyl Chloride) for Biocompatibility Improvement and Biomedical Application-Review

Source: Polymer-Plastics Technology and Engineering

Synthesis and characterization of Schiff bases from chitosan and salicylaldehyde derivatives

Source: Carbohydrate Polymers

Porous Chitosan-Silica Hybrid Microspheres as a Potential Catalyst

Source: Chemistry of Materials

Light transmission in quasiperiodic multilayers of porous silicon

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