

Cellulose Chitosan And Keratin Composite Materials

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(Invited) Cellulose-Chitosan-Keratin Composite Materials ... Cellulose and chitosan are two most abundant natural polymers with promising characteristics as composite materials. However, biopolymer based materials have relatively poor mechanical, thermal and barrier properties. Addition of two or more polymers, nanomaterials can significantly increase the properties of composites.

Preparation and comparative characterization of keratin ... ABSTRACT: A method was developed in which cellulose (CEL) and/or chitosan (CS) were added to keratin (KER) to enable [CEL/CS+KER] composites formed to have better mechanical strength and wider utilization. Butylmethylimidazolium chloride ([BMIm + Cl⁺ ?]), an ionic liquid, was used

Cellulose, Chitosan and Keratin Composite Materials ... A method was developed in which cellulose (CEL) and/or chitosan (CS) were added to keratin (KER) to enable [CEL/CS+KER] composites to have better mechanical strength and wider utilization. Butylmethylimidazolium chloride ([BMIm + Cl⁻]), an ionic liquid, was used as the sole solvent, and because the [BMIm + Cl⁻] used was recovered, the method is green and recyclable.

Cellulose, Chitosan, and Keratin Composite Materials ... Keratin-chitosan composite film was prepared by casting the mixed solution of both biopolymers in 75% acetic acid. Although keratin film without any additive is very fragile, 10-30 wt% of chitosan addition gave strong and flexible film (ultimate strength: 27-34 MPa, ultimate elongation: 4-9%).

Cellulose, Chitosan, and Keratin Composite Materials ... Novel composites were synthesized from keratin (KER), cellulose (CEL) and chitosan (CS). The method is recyclable because majority (>88%) of [BMIm + Cl⁺ ?], an ionic liquid (IL), used as the sole solvent, was recovered for reuse. Experimentally, it was confirmed that unique properties of each component remain intact in the composites, namely bactericide (from KER and CS) and anti-inflammatory property (from KER).

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Cellulose, Chitosan, and Keratin Composite Materials ... Cellulose, Chitosan, and Keratin Composite Materials. Controlled Drug Release | Langmuir A method was developed in which cellulose (CEL) and/or chitosan (CS) were added to keratin (KER) to enable [CEL/CS+KER] composites to have better mechanical strength and wider utilization.

Preparation and characterization of keratin-chitosan ... Keratin-chitosan and keratin-gelatin 3D-Composite scaffolds can overcome these drawbacks. In the present study, both KC and KG scaffolds showed improved mechanical properties, higher water uptake and enhanced cell viability over the native keratin scaffold reported earlier by us.

Cellulose, Chitosan, and Keratin Composite Materials ... A method was developed in which cellulose (CEL) and/or chitosan (CS) were added to keratin (KER) to enable [CEL/CS+KER] composites to have better mechanical strength and wider utilization. Butylmethylimidazolium chloride ([BMIm+Cl⁻]), an ionic liquid, was used as the sole solvent, and because the [BMIm+Cl⁻] used was recovered, the method is green and recyclable.

Cellulose, Chitosan and Keratin Composite Materials ... Abstract We have developed a simple and recyclable method to synthesize novel biocompatible composites from cellulose (CEL), chitosan (CS) and keratin (KER). Butylmethylimidazolium chloride...

Applications of cellulose and chitin/chitosan derivatives ... Novel composites were synthesized from keratin (KER), cellulose (CEL) and chitosan (CS). The method is recyclable because majority (>88%) of [BMIm+Cl⁻], an ionic liquid (IL), used as the sole solvent, was recovered for reuse. Experimentally, it was confirmed that unique properties of each component remain intact

A review on chitosan-cellulose blends and nanocellulose ... Based on the literature review performed, a systematic study on the effect of nano-cellulose and chitosan on packaging performance of gelatin and starch-based nano-composite films is not performed. So, this study is aimed at the improvement of mechanical strength and barrier properties of gelatin and starch-based nano-composite films by ...

A comparative study of gelatin and starch-based nano ... Applications of cellulose and chitin/chitosan derivatives and composites as antibacterial materials: current state and perspectives ... Franko M (2013) Chitosan-cellulose composite materials: preparation, characterization and application for removal of microcystin. ... (2018) Keratin-chitosan/n-ZnO nanocomposite hydrogel for antimicrobial ...

Cellulose-Chitosan-Keratin Composite Materials: Synthesis ... Composites containing cellulose, chitosan and keratin, synthesized by use of butylmethylimidazolium chloride as the sole solvent, were found to retain secondary structure and unique properties of their components.

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