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Materials

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**A comparative study of gelatin and
starch-based nano ...**

Applications of cellulose and

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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 ...

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Cellulose, Chitosan, and Keratin Composite Materials ...

ABSTRACT: 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

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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)

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and/or chitosan (CS) were added to keratin (KER) to enable [CEL/CS+KER] composites to have better mechanical strength and wider utilization.

A review on chitosan-cellulose blends and nanocellulose ...

Based on the literature review performed,

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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 ...

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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.

**(Invited) Cellulose-Chitosan-Keratin
Composite Materials ...**

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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

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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

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?), 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-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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Cellulose, Chitosan and Keratin Composite Materials ...

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Cellulose Chitosan And Keratin Composite

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

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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

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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 ...

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[BMIm + Cl⁻] used was recovered, the method is green and recyclable.

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

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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

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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

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elongation: 4–9%).

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).

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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-],

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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

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