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CIERRA DILLON

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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... (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. 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 ...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 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 ... 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 utilization. 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 ... Cellulose Chitosan And Keratin Composite Cellulose-Chitosan-Keratin Composite Materials: Synthesis ... 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. Cellulose Chitosan And Keratin Composite 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). Cellulose, Chitosan, and Keratin Composite Materials ... Novel composites were synthesized from keratin (KER), cellulose (CEL) and chitosan (CS). The method is recyclable because

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