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Nota di contenuto	Polysaccharide-Based Nanocrystals; Contents; List of Contributors; Foreword; Preface; Chapter 1 Polysaccharide Nanocrystals: Current Status and Prospects in Material Science; 1.1 Introduction to Polysaccharide Nanocrystals; 1.2 Current Application of Polysaccharide Nanocrystals in Material Science; 1.3 Prospects for Polysaccharide Nanocrystal-Based Materials; List of Abbreviations; References; Chapter 2 Structure and Properties of Polysaccharide Nanocrystals; 2.1 Introduction; 2.2 Cellulose Nanocrystals; 2.2.1 Preparation of Cellulose Nanocrystals 2.2.1.1 Acid Hydrolysis Extraction of Cellulose Nanocrystals2.2.1.2 Effects of Acid Type; 2.2.1.3 Effects of Pretreatment; 2.2.2 Structure and Properties of Cellulose Nanocrystals; 2.2.2.1 Structure and Rigidity of Cellulose Nanocrystals; 2.2.2.2 Physical Properties of Cellulose Nanocrystals; 2.3 Chitin Nanocrystals; 2.3.1 Preparation of Chitin Nanocrystals; 2.3.1.1 Extraction of Chitin Nanocrystals by Acid Hydrolysis; 2.3.1.2 Extraction of Chitin Nanocrystals by TEMPO Oxidation; 2.3.2 Structure and Properties of Chitin Nanocrystals;

Sommario/riassunto

Polysaccharide nanocrystals can be derived from the renewable resources cellulose, chitin or starch, which makes them ideal candidates for ""Green Materials Science"". This versatile material class can be used in nanocomposites such as rubber or polyester, and in functional materials such as drug carriers, bio-inspired mechanically adaptive materials or membranes. Moreover, polysaccharide-based nanomaterials are environmentally friendly due to their intrinsic biodegradability.With its interdisciplinary approach the book gives a thorough introduction to extraction, structure, properties, surfac

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