

Cellulose-based hydrogels: Designing concepts, properties, and perspectives for biomedical and environmental applications

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Development of new products and materials, especially those which are based on renewable organic resources using innovative sustainable processes, represents an increasing interest in both academic and industrial research. Cellulose and its derivatives have demonstrated to be versatile materials with unique chemical structure which provides a good platform for the construction of hydrogel networks with distinctive properties as respects of swelling ability and sensibility to external stimuli. Indeed, the high density of free hydroxyl groups in the cellulose structure makes them become a solid substrate that can undergo functionalization, allowing the production of new materials for novel advanced applications. Moreover, the smart behaviour of these materials, in response to specific environmental stimuli, namely temperature, pH, ionic strength, determines the obtained hydrogels especially attractive for *in vivo* applications. Consequently, cellulose-based hydrogels are promising materials, biodegradable, biocompatible, and the low cost, which exhibit properties that make them attractive in many applications, particularly in biomedical and environmental applications.

Keywords: cellulose-based hydrogels; biocompatibility; biomedical and environmental applications

1. General remarks

Hydrogels are material that exhibit three-dimensional network of hydrophilic polymers, capable to swell and retain a large amount of water within its structure [1]. The chemical crosslinking [2], physical entanglement [3], hydrogen bonds [4], and ionic bonds [5] are responsible to achieve the network of hydrogels. They can be obtained from the synthetic and natural polymers [6], and depend on various parameters, including the preparation method, charge, as well as mechanical and structural characteristics. Due to their excellent hydrophilicity, permeability, compatibility, and low friction coefficient, polymer-based hydrogels have been used extensively as drug delivery, food, cosmetics, high water-absorbing resin, contact lenses, corneal, implant, substitutes for skin, tendons, ligaments, cartilage, and bone [7,8]. Furthermore, an exclusive class of hydrogels - superporous hydrogels - can potentially be used for both short- and long term applications, as superdisintegrant, controlled release platform, and a gastroretentive drug delivery system. Also, superporous hydrogels have been successfully used as soil improvers [9], slow release fertilizers [10,11], pesticide release devices [12].

Recently, hydrogels have captured progressively the interest of researchers, due to the intrinsic properties corresponding of the medical applications. They can serve as scaffolds that provide structural integrity to tissue constructs, control drug, and protein delivery to tissues and cultures, and serve as adhesives or barriers between tissue and material surfaces. The advantages provided by hydrogels for drug delivery applications include the possibility of sustained release, leading to the maintenance of a high local concentration of an active pharmaceutical ingredient over an extended period of time [13]. Their biocompatibility, ability to release water-soluble compounds from the polymeric matrix, and versatility in modeling the physico-chemical properties, permit the generation of new biomaterials with applications in controlled drug release. Among them, polymers of natural origin are one of the most attractive options, mainly due to their similarities with the extracellular matrix (ECM), chemical versatility, as well as typically good biological performance.

It is worth noting that natural polymers have better biocompatibility and less latent toxic effect than most synthetic polymer hydrogels [14], so pure natural polymer hydrogels would be more suitable for biomaterials [15]. Indeed, polysaccharide-based hydrogels behave as smart materials and offer a variety of properties that can be exploited in several applications. Moreover, polysaccharides are gaining a particular attention as components of stimuli-responsive drug delivery systems, especially since they can be obtained in a well characterized and reproducible manner from natural sources [16]. In this context, they can be promising for application in the biomaterial domain, due to their unique benefits, like non-toxicity, abundance, biodegradability, biocompatibility, and biological functions [17]. The most important properties of polysaccharides are derived from natural sources, and their difficulty imposed new synthetic chemical modification methods, the aim being to promote new biological activities and to modify their final properties for specific goals. Furthermore, polysaccharide-based materials have opened new roads in the biomedical domain, namely in the tissue engineering of controlled drug delivery systems and cell immobilization. According those above-mentioned, cellulose represents the most abundant renewable and biodegradable polymeric material, being considered as the main constituent of plants and natural fibers. Also, cellulose is an environmentally friendly alternative to conventional materials and exhibit properties that make them very attractive in many applications [18]. Nowadays, cellulose derivatives-based hydrogel have gained a great popularity in agriculture and pharmaceutical industry, and

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Table of Contents Cellulose Based Hydrogels Designing Concepts Properties

1. Understanding the eBook Cellulose Based Hydrogels Designing Concepts Properties
 - The Rise of Digital Reading Cellulose Based Hydrogels Designing Concepts Properties
 - Advantages of eBooks Over Traditional Books
2. Identifying Cellulose Based Hydrogels Designing Concepts Properties
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cellulose Based Hydrogels Designing Concepts Properties
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cellulose Based Hydrogels Designing Concepts Properties
 - Personalized Recommendations
 - Cellulose Based Hydrogels Designing Concepts Properties User Reviews and Ratings
 - Cellulose Based Hydrogels Designing Concepts Properties and Bestseller Lists
5. Accessing Cellulose Based Hydrogels Designing Concepts Properties Free and Paid eBooks
 - Cellulose Based Hydrogels Designing Concepts Properties Public Domain eBooks
 - Cellulose Based Hydrogels Designing Concepts Properties eBook Subscription Services

- Cellulose Based Hydrogels Designing Concepts Properties Budget-Friendly Options
- 6. Navigating Cellulose Based Hydrogels Designing Concepts Properties eBook Formats
 - ePub, PDF, MOBI, and More
 - Cellulose Based Hydrogels Designing Concepts Properties Compatibility with Devices
 - Cellulose Based Hydrogels Designing Concepts Properties Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cellulose Based Hydrogels Designing Concepts Properties
 - Highlighting and Note-Taking Cellulose Based Hydrogels Designing Concepts Properties
 - Interactive Elements Cellulose Based Hydrogels Designing Concepts Properties
- 8. Staying Engaged with Cellulose Based Hydrogels Designing Concepts Properties
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cellulose Based Hydrogels Designing Concepts Properties
- 9. Balancing eBooks and Physical Books Cellulose Based Hydrogels Designing Concepts Properties
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cellulose Based Hydrogels Designing Concepts Properties
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cellulose Based Hydrogels Designing Concepts Properties
 - Setting Reading Goals Cellulose Based Hydrogels Designing Concepts Properties
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cellulose Based Hydrogels Designing Concepts Properties
 - Fact-Checking eBook Content of Cellulose Based Hydrogels Designing Concepts Properties
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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