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Advanced Preparation and Application of Cellulose

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Today's world is witnessing a growing concern for the environment as a result of global warming, energy crises, and waste generation. The growing demand for products with a low environmental impact has led to a greater focus on sustainable and renewable materials by the scientific community. In this scenario, cellulose is one of the most prominent candidates for use in different fields of applications in a sustainable manner, due to its abundant availability from various sources. In particular, nanocellulose presents outstanding characteristics, such as renewability, a high aspect ratio, good mechanical properties, excellent biocompatibility, hydrogen-bonding capacity, reinforcing potential, and degradability. This Reprint reports recent achievements in the advanced preparation and emerging applications of cellulose-based materials. In particular, topics of interest include, but are not limited to, water purification, energy storage, and healthcare applications.

