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   Sommario/riassunto   Our environment has been severely affected by the intensive
                             production and use of plastics derived from fossil fuels and their
                             uncontrolled end-of-life disposal. The return to using natural products
                             is a characteristic of the most recent decades, and nanocellulose
                             occupies a privileged position among these intensively studied
                             products. Nanocellulose is obtained from cellulose, which is the most
                             abundant natural polymer, by applying different chemical, mechanical,
                             enzymatic and, most often, combined methods. A huge effort has been
                             invested in the application of nanocellulose as a modifier or reinforcing
                             agent in polymer nanocomposites. This Special Issue brings together
                             twelve original articles and studies that contribute to our understanding
                             of the fundamental and technological knowledge of cellulose-polymer
                             nanocomposites. The isolation of nanocellulose from cheap sources
                             and, especially, from agro-food industry waste is an important step to
                             be implemented for cost reduction and environmental protection. An
                             appropriate surface treatment of nanocellulose is a key element for
                             achieving a good interfacial adhesion and superior properties in
                             polymer nanocomposites. The use of more appropriate and green
                             solvent systems for cellulose, the use of biobased plasticizers and
                             toughening agents in nanocellulose nanocomposites, and the use of
                             molecular dynamics simulations for the prediction of the compatibility
                             of cellulose blends are valuable methods for expanding the application
                             of nanocellulose.

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