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Autore	Kroncke, Charles O.
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2. Record Nr.	UNINA9910557255003321
Autore	Paës Gabriel
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Sommario/riassunto	Lignocellulose is the only renewable carbon source that can help replace oil-based chemicals and materials, in the process fighting global warming. However, because of its chemical and structural complexity, lignocellulose transformation into advanced products requires a better understanding of its composition and of its architecture at different scales, as well as a combination of physical, biological, and chemical processes, in order to render this

transformation efficient and economically competitive. Tremendous efforts continue to be made toward the production of ethanol as a biofuel from various lignocellulosic feedstocks. Furthermore, recent successes have been achieved in extracting fibers to prepare composite materials that can compete with plastic fabrics. Importantly, lignocellulose chemistry can bring to the market original and complex chemicals that can lead to new applications, in particular when exploiting aromatic molecules or oligosaccharides from lignocellulose to produce solvents, surfactants, plasticizers, functional additives for food/feed/cosmetics, drugs, monomers, and polymers. In addition to this broad range of molecular products, fibers and particles fractionated from the lignocellulosic biomass are increasingly used to elaborate bio-based composite materials.
