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As naturally occurring and abundant sources of non-fossil carbon, lignin and lignans offer exciting possibilities as a source of commercially valuable products, moving away from petrochemical-based feedstocks in

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favour of renewable raw materials. Lignin can be used directly in fields such as agriculture, livestock, soil rehabilitation, bioremediation and the polymer industry, or it can be chemically

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Lignin and Lignans as Renewable Raw Materials presents a multidisciplinary overview of the state-of-the-art and future prospects of lignin and lignans.

The book discusses the origin, structure, function and applications of both types of compounds, describing the main resources and values of these products as carbon raw materials.

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of compounds, describing the main resources and values of these products as carbon raw materials.

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This chapter gives an overview on the field of lignin and lignans as renewable feedstocks. It describes the main

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resources and the value of these products as carbon raw materials.

Beginning from a historical perspective, it covers the increasing interest of

botanists on lignin, as a fundamental part of plant structure; of biochemists to understand the mechanism of synthesis in plants; of chemists in the establishment of its composition,

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structure, and chemical transformations;
and of ...

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products, moving away from petrochemical-based feedstocks in favour of renewable raw materials. Lignin can be used directly in fields such as agriculture, livestock, soil rehabilitation, bioremediation and the polymer industry, or it can be ...

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Lignin and Lignans as Renewable Raw Materials is a useful reference for scientists and engineers in academia and industry working on new possibilities for the application of renewable raw...

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As naturally occurring and abundant sources of non-fossil carbon, lignin and lignans offer exciting possibilities as a source of commercially valuable products, moving away from petrochemical-based feedstocks in favour of renewable raw materials.

Lignin and lignans as renewable raw

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Lignin and lignan are closely related in term of their chemical structures, but they are different characteristics. Lignin is a polymeric substances as one of the cell wall components of woody ...

What is the difference between lignin and lignan?

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Lignans are phenolic dimers possessing a 2,3-dibenzylbutane structure. Such compounds are known to exist as minor constituents of many plants, where they form the building blocks for the formation of lignin in the plant cell wall.

Lignans - an overview | ScienceDirect Topics

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Higher quality lignin presents the potential to become a renewable source of aromatic compounds for the chemical industry, with an addressable market of more than \$130bn. [22] Given that it is the most prevalent biopolymer after cellulose , lignin has been investigated as a feedstock for biofuel production and can become a crucial plant extract in the

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Lignin - Wikipedia

Lignin is an organic substance binding the cells, fibres and vessels which constitute wood and the lignified elements of plants, as in straw. After cellulose, it is the most abundant renewable carbon source on Earth.

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Between 40 and 50 million tons per annum are produced worldwide as a mostly non commercialized waste product.

About Lignin

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Abstract.

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Lignin, a major constituent of

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lignocellulosic biomass, is the largest natural source of aromatic molecules and thus is an attractive feedstock for renewable chemical production. Direct incorporation of isolated lignin into materials has long been researched due to the idea's simplicity and the scheme's potentially high atom economy.

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Materials: Chemistry, Technology and
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G. Calvo-Flores, José A. Dobado, Joaquín
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