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Bio-based Plastics is a valuable resource for academic and industrial researchers who are interested in new materials, renewable resources, sustainability and polymerization technology. It will also prove useful for advanced students interested in the development of bio-based products and materials, green and sustainable chemistry, polymer ...

Bio-Based Plastics: Materials and Applications

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Wiley: Bio-Based Plastics: Materials and Applications

Bio-based Plastics presents an up-to-date overview of the basic and applied aspects of bioplastics, focusing primarily on thermoplastic polymers for material use.

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For most of the bio-based and biodegradable plastics there are several suppliers and most plastics are readily available. In general, bio-based and biodegradable plastics are more expensive than fossil-based plastics on a weight basis. However, specific material properties can allow costs reductions in the use or end-of-life phase.

Bio-based and biodegradable plastics - Facts and Figures

The objective of the study was to ascertain the state of the art with regard to the applicability of biobased packaging materials to foods and to identify potential food applications for biobased ...

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Download or Read Book The field of bio-based plastics has developed significantly in the last 10 years and there is increasing pressure on industries to shift existing materials production from petrochemicals to renewables.

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Bio Based Plastics Materials And Applications

Focus on "Biobased," "Biodegradable," & "Compostable" Plastics Publication Number: 14-07-017 1 Waste 2 Resources Program August 2014 . Disclaimer: This focus sheet is not intended as an endorsement of "biobased," "biodegradable," and/or "compostable" plastic products by the Washington State Department of Ecology.

Focus on Bioplastics: "Biobased," "Biodegradable," and

not cover the bio-based plastics branch. We must clearly differentiate between these two terms. A polymer is a chemical compound consisting of repeating structural units (monomers) synthesized through a

polymerization or fermentation process, whereas a plastic material constitutes a blend of one or more polymers and additives.

Bio-based Polymers in the World

materials and partly of non-biobased materials due to specific functional requirements. In such cases, the percentage of biobased content is stated. Wherever possible, references to producers and suppliers are given. Various producers of biobased materials and packaging products assisted with the compilation of this catalogue.

Biobased Packaging Catalogue - BioBased Economy

Bio-based plastics are predicted to make up 5% of all manufactured plastics in 2020, and 40% of all manufactured plastics in 2030. Ceresana predicts that when bioplastics reach 5% of the plastics market in 2020, the market for bio-based plastics will be worth 5.8 billion dollars, three times the size of the bioplastics market in 2014.

Bioplastic - Wikipedia

of environmentally-friendly bio-based containers. ! These bio-based materials have excellent thermal and mechanical properties as well as good dimensional stability. ! The water resistance of some commercially available bio-based containers was dramatically enhanced using recently developed bio-based coatings.

Bio-based Polymers and Composites for Container Production

Bio-based Plastics is a valuable resource for academic and industrial researchers who are interested in new materials, renewable resources, sustainability and polymerization technology. It will also prove useful for advanced students interested in the development of bio-based products and materials, green and sustainable chemistry, polymer chemistry and materials science.

Bio-Based Plastics | Wiley Online Books

Bio-based, non-biodegradable plastics, such as polyurethanes (PUR) and drop-in solutions, such as bio-based PE and bio-based PET, are the main drivers of this growth, with PUR making up around 40% and PET over 20% of the global bioplastics production capacities.

Demand for bio-based plastic continues to rise despite

Study on current situation and trends of the bio-based industries in Europe with a focus on bio-based materials (Pilot Study for BBI JU) – more information Lara Dammer, Michael Carus, Kerstin Iffland, Stephan Piotrowski, Luis Sarmiento, Raj Chinthapalli, Achim Raschka

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