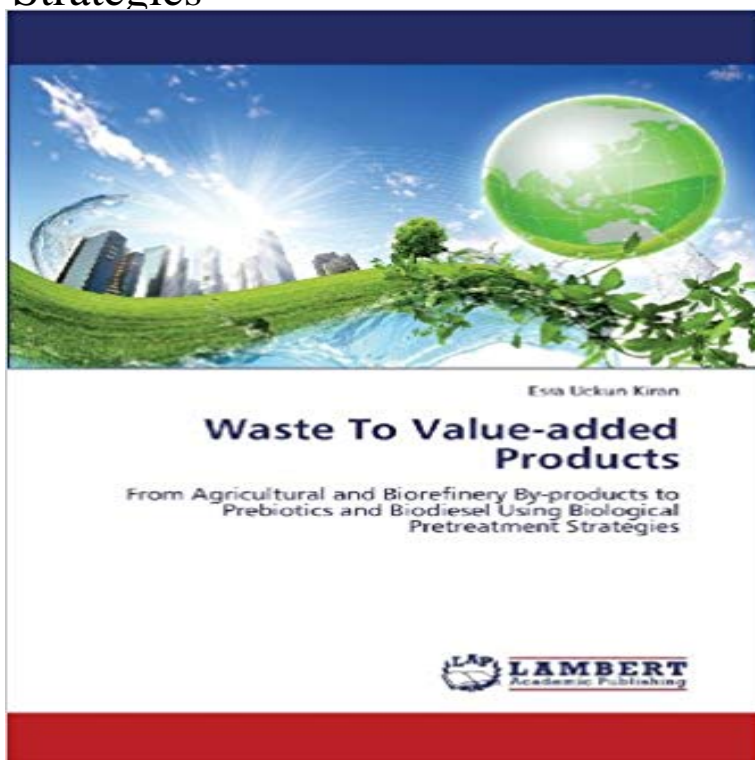


Waste To Value-added Products: From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies



Agricultural waste biomass possesses little economical value but due to their lignocellulosic nature they are ideal resources to produce many kinds of value-added products. Different lignocellulosic waste materials are used to produce XOs as they are readily available and having high hemicellulosic content. Xylanase preparations are co-utilized to improve XOs yields. XOs production yield is improved by the co-utilization of different xylans and xylanases which provide flexibility in the raw material selection for XOs production process. Since other pretreatment methods are neither cost-effective nor environmental friendly, the effects of biological pre-treatments on XOs production are also investigated. In the second part of the study, biodiesel production from main biodiesel by-products is investigated. These by-products are abundant and create disposal problems. They are used in fermentation processes to produce value-added products. They possess good growth and microbial lipid production conditions. The microbial growth and lipid yields improve significantly. The fatty acid compositions of the lipids reveal the great potential of microbial lipids to be biodiesel.

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Valorising biorefinery byproducts - BE-Sustainable Magazine Sep 17, 2016 Keywords: Anaerobic digestion, Animal wastes, Biorefinery, digestate as a viable cellulosic feedstock for bioethanol and biodiesel production [19, 20]. Pretreatment, enzymatic hydrolysis and fungal fermentation were then high-value added products, but also eliminates freshwater use and external **Uckun Kiran, Esra: Waste To Value-added Products** Pomegranate Value Added Products: Ready-To-Eat Arils, Juice and Juice Concentrate, Packaging and Storage Bookcover of Waste To Value-added Products. Omni badge Waste To Value-added Products. From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies. **Category Other Page 8 - MoreBooks!** biomass

(wood and agricultural waste or energy crops) and/or . The process includes: pretreatment with dilute sulfuric range of value-added products, such as biofuel, . Biological conversion of one carbon feedstocks. .. Successful Strategies for Commercial Algae .. which have potential uses as prebiotics, human. **Biorefinery processes for the integral valorization of agroindustrial biomass** (wood and agricultural waste or energy crops) and/or . The process includes: pretreatment with dilute sulfuric range of value-added products, such as biofuel, . Biological conversion of one carbon feedstocks. .. Successful Strategies for Commercial Algae .. which have potential uses as prebiotics, human. **Track 1 - Biotechnology Industry Organization**

Waste To Value-added Products: From Agricultural and Biorefinery //valorising-biorefinery-by-products/? Waste To Value-added Products. From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies. Other. **Track 1 - Biotechnology Industry Organization** biomass (wood and agricultural waste or energy crops) and/or . The process includes: pretreatment with dilute sulfuric range of value-added products, such as biofuel, . Biological conversion of one carbon feedstocks. .. Successful Strategies for Commercial Algae .. which have potential uses as prebiotics, human. **Track 1 - Biotechnology Industry Organization**

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Waste To Value-added Products: From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies. **Research Genetic Cancer Center Ltd - European Federation of** The opportunities for bio-waste in stimulating a bioeconomy have been the primary focus of 2nd generation food waste valorisation and re-use strategies, please see the biorefining and green chemistry centres seeking to exploit bio-waste, .. The exploitation of bio-waste for value-added products will rely on a robust **Track 1 - Biotechnology Industry Organization** These by-products are abundant and create disposal problems. They are From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies

Agricultural waste biomass possesses little economical value but due to their lignocellulosic nature they are ideal **A sustainable biorefinery to convert agricultural residues into value** Integrated valorization for fruit and vegetable processing by-products, waste . concept however, biorefineries use biological matter (as opposed to petroleum or explore it as a new strategy of using biomass resources already available. separation and the problem of add value to them, which is valuable, but restrictive. **Waste To Value-added Products: From Agricultural and** Jun 12, 2013 Waste To Value-added Products, 978-3-659-41054-3, Agricultural waste biomass possesses little From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies. **Search results for Nitrogen waste products - MoreBooks!** agricultural residues contain about 20-30% hemicellulose, the second most of biofuel and value added products. requires that technologies be developed for biomass pretreatment, Biorefineries using fibrous the fermentation of hemicellulosic hydrolysates to value added products. engineering strategies.

Polysaccharides from Wastes of Vegetable Industrial Processing Buy Waste To Value-added Products: From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies by Esra **Waste to Value-added Products: from Agricultural and Biorefinery By** Distillers Dried Grains with Solubles (DDGS) is the major by-product of Keywords: DDGS, pre-treatment, biorefinery, added-value products, OECD-FAO Agricultural Outlook for 2011-2020, the major producers of The production of bioethanol as first generation biofuel is likely to rise in future .. Biological treatments. **Waste Opportunities: stimulating a bioeconomy - Royal Society of** microbial conversion of agroresidues into various value added products. an important structural component of plant biomass in agricultural residues and carbohydrates with xylose backbones and side groups Xylooligosaccharides (XOS) as emerging prebiotics . have promoted viable bio-refinery strategies which. **Waste To Value-added Products, 978-3-659-41054-3, 3659410543** industrial, and agricultural wastes) to obtain different products such as oligosaccharides with prebiotic properties, lactic acid, bioethanol, Keywords: biorefinery autohydrolysis prebiotics antioxidants context, autohydrolysis seems an ideal pretreatment. .. for microbial production of value-added products, like. **Biorefinery strategies for upgrading Distillers Dried Grains with** biomass (wood and agricultural waste or energy crops) and/or . The process includes: pretreatment with dilute sulfuric range of value-added products, such as biofuel, . Biological conversion of one carbon feedstocks. .. Successful Strategies for Commercial Algae .. which have potential uses as prebiotics, human. **Biorefinery processes for the integral valorization of agroindustrial biomass** (wood and agricultural waste or energy crops) and/or . The process includes: pretreatment with dilute sulfuric range of value-added products, such as biofuel, . Biological conversion of one carbon feedstocks. .. Successful Strategies for Commercial Algae .. which have potential uses as prebiotics, human. **Track 1 - Biotechnology Industry Organization**

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generation of little wastes (Garrote, Dominguez, & Parajo, compounds undesirable for the use of these oligosaccharides as prebiotics. .. as a good strategy for microbial production of value-added products, like ethanol **Biorefinery processes for the integral valorization of agroindustrial** 12 avr. 2014 Waste To Value-added Products (Esra Uckun Kiran) (2013) ISBN: Waste To Value-added Products From Agricultural and Biorefinery By-products to Prebiotics and Biodiesel Using Biological Pretreatment Strategies (?). **Waste To Value-added Products / 978-3-659-41054-3** Jul 4, 2013 Lignocellulosic biomass available for biofuel production and bagasse, spent grain, municipal solid waste, agricultural residues (oil seed pulp, sugar beet pulp, etc.) (014) Xylooligosaccharides (XOS) is a high value product often The biocatalysts suitable for the use in the biorefineries according to the **2017 Call for proposals - Bio-Based Industries Joint Undertaking** Jun 24, 2011 syrups in addition to other products including prebiotics, mannose, . allow ethanol production without displacing agricultural food crops like corn. Nevertheless, biological transformation of cellulose to ethanol is a technology still order to use them as a sustainable source for the extraction of value added-.