

Utilization of Ananas Cosmos Waste for Valuable Products †

Kalyani M¹, Raviteja P¹, Tharunesh P^{1,*}

¹ Department of Chemical Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India;

* Correspondence: ugs17047_chem.tharunesh@cbit.ac.in (T.P.);

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Abstract: Over the last few decades, waste from the fruits and vegetable processing industry has been on the rise, and it contains high levels of lignocellulose, fiber, sugar, bioactive and functional compounds, and their utilization has become one of the important and challengeable aspects. Many types of research have validated that the waste generated by discarded fruits as well as its waste materials could be utilized further as a novel, low-cost, economical, and natural source of enzymes, antioxidants, pectin, organic acids, food additives, essential oils, etc. through different methods of extractions, purifications, and fermentations, etc. Focusing on the Ananas Cosmos (Pineapple) fruit, scientific and technological studies have already highlighted and confirmed the potential of better and more profitable markets for Ananas Cosmos Waste. Researchers have focused on utilizing Ananas Cosmos waste primarily for extraction of bromelain enzyme and secondarily as low-cost raw material for the production of ethanol, phenolic antioxidants, organic acids, biogas, and fiber production. This work is intended to present a comprehensive review of ongoing research on the utilization of Ananas Cosmos waste.

Keywords: Ananas Cosmos waste; food processing; waste management.

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Conflicts of Interest

The authors declare no conflict of interest.