

Endogenous Bio-Waste and By-Product Streams Valued as a Resource for Fermentative Hydrogen Production

Short introductory summary:

Recently, the European Union (EU) has taken steps to counteract the negative impact of carbon emissions with more restrictive legislation for waste treatment and disposal. One example is the 2018/851/EC Directive on waste that restricts landfilling and encourages the separate collection of bio-waste [1]. This directive points to the efficient and rational utilisation of natural resources while boosting the use of bio-waste as resource and promoting the principles of the circular economy. Accordingly, this study evaluated the suitability and performance of dark fermentation (DF) as conversion solution for hydrogen (H₂) production from agro-food wastes and by-products.

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Presenter's biography:

MSc in Biological Engineering by Superior Technical Institute (IST) in the year of 2009. Currently, Joana is a PhD student of Environmental engineering with the subject "FOREVAR, Food waste reduction and valorisation", focused on the fermentative production of hydrogen from food waste.

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