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BIOETHANOL PRODUCTION FROM FRUITS WASTES: A REVIEW

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Statement of the Problem: fruits wastes from food processing plants (such as natural juices, jams, jellies, etc.) are generated in large amounts, these wastes presents a tremendous pollutions especially in Egypt and developing countries. Worldwide, these wastes are often simply dumped into landfills and ocean or used as animal feed. The recovery of food processing wastes as renewable energy sources represents a sustainable option for the substitution of fossil energy in order to decrease expected environmental damages like global warming and acid rain.

Methodology & Theoretical Orientation: Fruits wastes have high levels of sugars, including sucrose, glucose, and fructose, that can be transformed to bioethanol through four processes of pretreatment, enzymatic hydrolysis, fermentation and distillation.

Conclusion & Significance: In this review, we will discuss about different challenges and limitations for ethanol production from different fruits wastes that were studied in the recent researches.

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