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A Review on Current Research Activities: Biological Conversion of Crude Glycerol from Biodiesel Industry into Value-Added Products

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Abstract: Glycerol is a by-product obtained from biodiesel industry. Recently, the biodiesel production is increasing exponentially, the crude glycerol produced from the transesterification reaction of vegetables oils has also been produced in a large quantity. The pure glycerol plays an important role in food, pharmaceutical, cosmetics, and many other industries, it is too costly to refine the crude glycerol to a high purity, especially for medium and small biodiesel producers. Several research projects and studies have been conducted and innovative consumptions of the crude glycerol are under investigations. It will be beneficial to the research people as well as biodiesel industry in understanding the progress of glycerol for value-added applications. In the present paper, we have been clearly summarized the current available studies and possible ways on the utilizations of crude glycerol generated from biodiesel industry using biological conversion process.

Keywords : Biodiesel, Crude glycerol, Biological Conversion Process, value-added products.

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