Biogas production by plant waste treatment

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Biofuels are considered as an alternative to the traditional energy sources such as coal, oil and nature gas. Under “biofuels” we understand ethanol, produced from plants; biodiesel, produced from nature lipids; and biogas, produced through anaerobic digestion of industrial, municipal/household waste, as well as plant and animal waste.

Biogas is widely used fuel in economically developed countries, as well as in the countries from 3rd world. It has many applications. Among the most important ones are as fuel for both thermal power plants, national gas grid systems and as a fuel in various types of vehicles, including passenger cars, trucks, small and midsize boats and aircrafts. The use of biogas could minimize the carbon emissions, accumulated by the burning of conventional fuels. It could also minimize the problems with the accumulation of organic waste, by utilizing that waste and turning it into biogas. The main source to produce biogas is manure. Some of the disadvantages of producing biogas, is the low content of methane (50 – 60%), as well as the presence of sulfuric compounds. In the current case, our aim is to investigate the possibilities of optimizing the methods and conditions for biogas production from vegetable waste.

Biography:

Ivan Angelov was born in 1986 in Sofia, Bulgaria. He has completed his PhD at the age of 30 years (in 2016) from Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria. He is a researcher in a Laboratory of Chemical and Biochemical reactors, Institute of Chemical Engineering, Bulgarian Academy of Sciences. He has worked in the field of biogas production from different waste materials, experimental conditions and substrate treatments.

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