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Food Waste to Energy: An Overview of Sustainable
Food wastage and its accumulation are becoming a critical problem around the globe due to continuous increase of the world population. The exponential growth in food waste is imposing serious threats to our society like environmental pollution, health risk, and scarcity of dumping land. There is an urgent need to take appropriate measures to reduce food waste burden by ...

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Biomass is plant or animal material used as fuel to produce electricity or heat. Examples are wood, energy crops, and waste from forests, yards, or farms. Since biomass technically can be used as a fuel directly (e.g. wood logs), some people use the terms biomass and biofuel interchangeably. More often than not, the word biomass simply denotes the biological raw ...

FePO4 based single chamber air-cathode microbial fuel cell
May 15, 2017 · In recent decades, microbial fuel cells (MFCs) have been gradually becoming a promising biological technology for treatment of environmental pollutants. MFC is a bioelectrochemical device that utilizes exoelectrogens as biocatalyst to recover electricity energy from wastewater (Logan et al., 2007, Logan et al., 2006).

Waste to bioenergy: a review on the - BMC
(DCFC). Microbial fuel cells (MFC). MFC convert organic material into electrical energy via the microbes' metabolic

Frontiers | Bio-aviation Fuel: A Comprehensive Review and
However, a full-scale implementation of energy crops for jet fuel production would not only entail economic impacts. Both impacts on and synergies with food (land), water, energy, and environment sectors are expected that are not typically assessed and analyzed holistically in most biomass supply chain models (Tapia et al., 2019). Waste Biomass

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solid-waste management - solid-waste management - Composting: Another method of treating municipal solid waste is composting, a biological process in which the organic portion of refuse is allowed to decompose under carefully controlled conditions. Microbes metabolize the organic waste material and reduce its volume by as much as 50 percent.

Advanced biofuels | ExxonMobil
That is why ExxonMobil is funding a broad portfolio of biofuels research programs for new energy sources. ExxonMobil is focused on advanced biofuels that do not compete with food or water supplies. Examples include algae, corn stover, switchgrass or methane emitted from microbial activity in landfills.