



BioMed Research International

Special Issue on
Bioenergy Technologies: Current Advances and Challenges

CALL FOR PAPERS

The ever-increasing global energy demands, together with the negative environmental impact from using fossil fuels, have reinforced the efforts to develop renewable energy sources. Bioenergy technologies which convert waste biomass into energy carriers, such as biogas, bioalcohol, biohydrogen, or high value bioproduct, open new scenarios toward the goal of increasing the proportion of renewable biofuel in energy supply. The biotechnologies for bioenergy depend on the kind of biomass and the type of energy derived from it. Given the high availability of biomass, broad spectrum of bioenergy carriers, and environment-friendly processes, bioenergy technologies have grown rapidly in the past decades. Since bioenergy is an area with increasing interests, conventional bioenergy technologies such as anaerobic digestion and fermentation are continually being developed and novel processes are continually emerging. This special issue mainly focuses on the recent advances and potential challenges of current and emerging bioenergy technologies, giving perspectives for utilisation of biomass to bioenergy production, as well as the sustainability of the utilisation technologies. We invite prospective authors to contribute original research articles as well as review articles for this forthcoming special issue.

Potential topics include, but are not limited to:

- Advances in anaerobic digestion process focusing on energy recovery
- Recent fermentation technologies for hydrogen and bioalcohol production
- Microbial electrochemical technologies (METs): bioenergy (MFC/MEC) and bioproducts (MES)
- Microbial biodiesel synthesis
- Bioreactor systems for biofuel and bioelectricity
- Hybrid bioenergy technologies
- Other new emerging bioenergy technologies

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