

Tentative Outline
Special Issue for Current Organic Chemistry
Guest Editor(s): Panyue Zhang

TITLE: Advances in sustainable bioenergy production with fermentation process

Aims & Scope:

Bioenergy is considered as an important renewable alternative to meet the ever-increasing energy demand. In recent years a lot of work has been done on bioenergy with the purpose of acceptable technological, economic and environmental sustainability. The objective of this thematic issue is to provide update information about the recent developments on bioenergy production with fermentation process. The thematic issue includes 5 mini-review articles addressing relevant technologies, including pretreatment, production, separation and mechanism analysis of bioenergy such as organic acids and biogas production. Meanwhile, gaps which limited the large-scale production of bioenergy are also investigated. These works could promote the understanding and large-scale field application of fermentation process for bioenergy production.

Subtopics:

- A review of hydrothermal pretreatment on bioenergy production from lignocellulose biomass
- Research developments of sludge anaerobic digestion during recent four years: A review
- A review on electrodeionization process applications for recovery of organic acids
- Recent advances in application of electrodialysis with bipolar membranes (EDBM) for separation of organic acids from fermentation broth
- Production of renewable biogenic coal-bed natural gas using plant-derived carbohydrates
- Fermentative hydrogen production from wastewaters: Perspective and challenges
- A review on technologies for the recovery of dissolved methane from anaerobically treated wastewater
- A review on pretreatments to enhance VFA production from sewage sludge

Approximate Schedule:

- Manuscript submission deadline: 1. December, 2015
- Peer Review Due: 15. January, 2016
- Revision Due: 15. February, 2016
- Notification of Acceptance by the Guest Editor: 15. March, 2016
- Final Manuscript Due: 1. April, 2016