



Anaerobic Digestion Process: Design, Optimization and Application

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Message from the Guest Editor

Anaerobic digestion (AD) is an interesting approach to waste management since it produces biogas, a gaseous mixture of primarily methane and CO₂, which can be used in various industrial and other processes. Furthermore, the fact that anaerobic digestion in this case utilizes food waste, it can be concluded that AD in this case plays a dual part in improving the sustainability of the industry: (1) it improves the management of the industrial waste and (2) it generates the production of the energy source – biogas. Also, indirectly, AD, in this case, uses waste from the food and beverage industry, which does not endanger resources needed for food production.

The topics within the scope of the issue are mainly the following, but not limited to this:

- Anaerobic digestion of waste materials, waste, and by-products from the food and beverage industry, as well as agriculture are included
- Pre-treatment of substrates used in anaerobic digestion
- Unification of anaerobic digestion with various other processes and applications
- Inhibition effects in anaerobic digestion
- Characterization and quality of produced digestate





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