

Special Issue

Advanced Biotechnology for Biofuel Production and Wastewater Recovery

Message from the Guest Editors

The way we look at wastewater is changing. While it used to be considered a waste product that needs to be treated before discharge with high costs to municipalities and industries, wastewater is now viewed as a resource. Wastewater recovery therefore offers a more sustainable process, often including resource cycling, than conventional wastewater treatment systems based on activated sludge processes. Wastewater is a rich source of chemical energy that can easily be converted into biofuels, including biogas, biohydrogen, biodiesel, syngas, and nitrogenous fuels. Several technologies could be applied, such as anaerobic digestion, dark and alcoholic fermentations, pyrolysis, and hydrothermal liquefaction; for example, the production of biogas has already been successfully implemented on large-scale municipal wastewater treatment plants. This Special Issue aims to gather contributions of high-quality scientific works related to biofuel production from wastewater using advanced biotechnological methods.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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