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Trends in Energy Harvesting Biotechnology

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Message from the Guest Editors

Sustainable use of natural resources has directed conventional waste and wastewater management towards resource recovery, including nutrients and energy. Biotechnology provides solutions for harvesting energy carriers from waste materials together with meeting the environmental protection needs. Various bioprocesses have been developed for waste-to-energy harvesting, including biomethane, bioalcohols biohydrogen and bioelectricity. Anaerobic digestion for methane and bioethanol production have found many applications whereas processes targeting biobutanol, biohydrogen, as well as bioelectrochemical systems remain in developmental stage. These technologies have various potentials and challenges prior to providing wide-scale resource recovery solutions. The primary focus of this Special Issue is introduce up-to-date bioprocess approaches for producing energy carriers from waste materials with a special focus on identifying key factors limiting their large-scale beneficiation.



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Special Issue



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Message from the Editor-in-Chief

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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