

## Special Issue

# Trends in Energy Harvesting Biotechnology

### 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 to 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.

### Guest Editors

Prof. Dr. Jaakko Puhakka

Prof. Jukka Rintala

Prof. Bestamin Özkaya

Prof. Erkan Sahinkaya

### Deadline for manuscript submissions

closed (28 February 2019)



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*Energies*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[energies@mdpi.com](mailto:energies@mdpi.com)

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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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University  
Niccolò Cusano, 00166 Roma, Italy

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