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Trends in Energy Harvesting Biotechnology

Guest Editors:

submissions:

Message from the Guest Editors

Prof. Dr. Jaakko Puhakka Sustainable use of natural resources has directed conventional waste and wastewater management towards. Prof. Jukka Rintala resource recovery, including nutrients and energy. Biotechnology provides solutions for harvesting energy Prof. Bestamin Özkaya carriers from waste materials together with meeting the Prof. Erkan Sahinkaya environmental protection needs. Various bioprocesses have been developed for waste-to-energy harvesting, including biomethane, bioalcohols biohydrogen and bioelectricity. Anaerobic digestion for methane and Deadline for manuscript bioethanol production have found many applications closed (28 February 2019) whereas processes targeting biobutanol, biohydrogen, as bioelectrochemical remain well as systems in developmental stage. These technologies have various potentials and challenges prior to providing wide-scale resource recovery solutions. The primary focus of this introduce up-to-date Special Issue is 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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Message from the Editor-in-Chief

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