

Special Issue

Biocatalytic Processes: A Multidisciplinary Platform for Future Biorefineries and Energy Conversion Systems

Message from the Guest Editors

Applied biocatalytic processes play a growing role in global material and energy cycles. Current attempts and advances to integrate biocatalysts with distributed energy systems and developing biorefineries, as well as to combine disciplines such as bioelectrochemistry, process engineering, and power/waste-to-x technologies, are plentiful and outline a promising path to follow. In this Special Issue, we aim to highlight the most recent innovations in biocatalytic approaches for advanced energy conversion and biomass valorization. This includes, but is clearly not limited to, microbial or enzymatic processes that facilitate (i) usage and storage of excess renewable electricity as biofuels or value-added chemicals; (ii) sustainable and distributed power generation; (iii) resource bio-recovery from waste streams. We are looking forward to discussing the chances offered by sustainably sourced catalysts and bioreactor components, and accomplishments in the field of biocatalytic tool development.

Guest Editors

Prof. Dr. Katharina Herkendell

Dr. Marianna Villano

Prof. Dr. Dana Akilbekova

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

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