

Special Issue

Application of Catalysis and Biocatalysis in Biorefineries

Message from the Guest Editors

This Special Issue aims to cover the recent advances in the field of catalytic conversion, focusing on the use of (i) catalysis (heterogeneous and homogeneous) and (ii) advanced solvents (ionic liquids, deep eutectic solvents), as well as (iii) advances in thermo and biochemical conversion and (iv) novel biocatalytic approaches in bioprocessing. We welcome all kinds of high-impact articles (research and review papers). Short communications are also welcome if they are novel and high impact. All manuscripts will be subjected to rigorous peer review by eminent experts in the respective areas. Possible topics include, but are not limited to the following:

- catalytic depolymerization of lignin to value added products;
- thermochemical catalysis of biomasses including pyrolysis, gasification, and hydrothermal carbonization;
- lignin valorization via biocatalysis;
- catalytic valorization of municipal, agricultural, and animal wastes;
- biochemical conversion of lignocellulose to platform chemicals.

Guest Editors

Dr. Lalitendu Das

Sandia National Laboratories, Livermore, CA, USA

Dr. Joseph Stevens

Lawrence Berkeley National Laboratory, Berkeley, CA, USA

Dr. Wenqi Li

Biosystems & Agricultural Engineering Department, University of Kentucky, Lexington, KY, USA

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).