



## Application of Catalysis and Biocatalysis in Biorefineries

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

Deadline for manuscript  
submissions:

**closed (30 April 2021)**

### 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.

