

## Special Issue

# Selective Catalysts for Electrocatalytic Conversion of Biomass and Its Platform Molecules: Current State and Prospects

### Message from the Guest Editors

The electrocatalytic conversion of biomass and its platform molecules has emerged as a critical area of interest for both academia and industry, driven by the global demand for sustainable and renewable energy sources. Biomass, being a renewable resource, offers immense potential for producing valuable chemicals, fuels, and materials. However, the efficient and selective conversion of biomass into these products presents significant challenges. Selective catalysts play a pivotal role in ensuring high efficiency, selectivity, and stability during these electrocatalytic processes. This Special Issue aims to gather cutting-edge research on the development of selective catalysts, mechanistic insights, and innovative approaches in the electrocatalytic conversion of biomass and platform molecules. We welcome contributions that focus on catalyst design, process engineering, reaction mechanisms, and interdisciplinary work that advances the field. Original research papers, review articles, and short communications are all invited.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2025)



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