

Special Issue

Catalytic Conversion of Biomass and Preparation of Carbon Materials

Message from the Guest Editors

This Special Issue introduces various biomasses used in catalytic conversion processes. The latest research developments on the catalytic conversion of biomass will be discussed—particularly the effects of catalysts on the principal products of various chemical reactions, as well as the yield and characteristics of the products. Different catalytic reaction mechanisms in the processes of chemical conversion reactions will be addressed in order to clarify the prerequisites for enhancing the quality of the intended result. To better comprehend the prospects for biomass catalytic conversion technology, the difficulties and possibilities associated with chemical conversion processes will also be addressed. Furthermore, this Special Issue will introduce several types of biomass-based carbon material synthesis and modification processes as well as the effects of various factors involved in the carbonization process to generate biochar with different physicochemical properties from biomass. The application of biomass-based carbon materials in wastewater treatment is another point of emphasis. Future directions of biomass-based carbon materials will also be discussed.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)



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