Topical Collection

Catalytic Conversion of Biomass to Bioenergy

Message from the Collection Editors

Taking into account the current challenges related to gradual environmental degradation, the replacement of traditional processes to obtain energy (many of them focused on petroleum-based industry) is becoming more and more important. Thus, processes that contribute to green chemistry, a circular economy, or sustainability are a clear future trend and an alternative for the abovementioned polluting processes. This Topic Collection (TC) is mainly devoted to the conversion of biomass to bioenergy through different methods where the role of catalysts is essential. Indeed, the competitiveness of these processes is considerably improved by the use of catalysts, which is an important step when translating successful laboratory-scale processes to the industrial or semi-industrial scale. Thus, in this context, for this TC, studies about the catalytic conversion of biomass to bioenergy are welcome, including interesting aspects such as catalytic performance, reusability, durability, characterization, etc. In other words, studies devoted to investigating the contribution of catalysts to the sustainable generation of energy are highly sought after.

Collection Editors

Dr. Sergio Nogales Delgado

Prof. Dr. Juan Félix González

Prof. Dr. Simona M. Coman

Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 7.6

mdpi.com/si/198789

Catalysts
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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