



Green Chemistry of Renewable Energy in Catalysis and Reaction Engineering

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Message from the Guest Editors

With the development and application of an appropriate catalyst, mild reaction conditions can be achieved. Effective catalysts can conveniently control the direction and rate of a reaction under suitable reaction temperature and pressure. In this regard, the heterogenous and electro-catalysis processes have been found efficient in chemical and fuel synthesis, biomass conversion, wastewater treatment, energy generation, etc. However, there are numerous challenges, such as catalysts deactivation, stability, search for low-cost catalysts, etc., in catalyst design with the required set of properties. Moreover, multiple engineering challenges, such as non-ideal mechanistic kinetics and thermodynamics, need to be studied for an effective outcome.

This Special Issue aims to cover catalyst design and engineering challenges for various catalysts developed for chemical and fuel synthesis, biomass conversion, wastewater treatment, energy generation, etc.





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Message from the Editor-in-Chief

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