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Transition Metal Catalysis for Biomass Transformation and Green Energy Production

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Deadline for manuscript submissions: **closed (31 July 2021)**

Message from the Guest Editors

Among all the available metals, transition metals (TM) exhibit excellent catalytic performances in both homogeneous and heterogeneous catalytic reactions. The multiple and switchable oxidation states and the capability to form complexes are just two of the promising features behind the successful application of TM in a wide range of catalytic processes, from biomass valorization to energy production. Moreover, due to the redox properties, TM are suitable electrocatalysts both for oxidation and reduction reactions. On the other hand, one of the main limitations of TM-based catalysts is their low stability and deactivation.

This Special Issue of *Catalysts* focused on "Transition Metal Catalysis for Biomass Transformation and Green Energy Production" will focus on monometallic and bimetallic systems involved in the synthesis of chemicals from biomass and green energy production. Full papers, communications, reviews, and concepts in any topic related to the application of transition metal catalysis in these topics are more than welcome. Research papers focusing on the deactivation mechanism will be highly appreciated as well.



