



## Green Catalytic Processes in Chemical Engineering towards Sustainable Processes and Circular Economy

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### Message from the Guest Editors

Catalytic processes in chemical engineering are integrated to enhance sustainable process design. In conformity with green chemistry principles, catalysis provides a way to upgrade the efficiency of reactions while decreasing waste and energy. This Special Issue will focus on recent advances in catalytic systems and their use to enable sustainable processes inside industrial scenarios. For example, one might prioritize the creation of new catalysts and innovative catalysis strategies to implement cutting-edge technologies at the industrial scale, or they might address challenges related to process intensification by adopting advanced computational methods such as computationally fluent process optimization directly into a broader range of applications, including renewable energy production and storage (e.g., fuel cells, electrolyzes), efficiency (heat recovery system manufacture) waste valorization, carbon dioxide capture in mature industries like the cement industry, etc.





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