Special Issue

Chemical Looping for Catalysis

Message from the Guest Editor

The aim of this Special Issue is to cover promising recent research and novel trends in the field of chemical looping applications for performing catalytic reactions (selective oxidation, reforming, dehydrogenation, etc.). Reactions could run in liquid or gas phase, employing a range of different catalysts and materials with various oxidants. A key component for the development of novel chemical looping processes is the design of suitable materials. Chemical looping involves many aspects of materials science, including synthesis, reactivity, and mechanical properties, flow stability and contact mechanics, as well as gas–solid reaction engineering. Studies offering material design would also be of great interest.

Guest Editor

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