



## Chemical Looping for Catalysis

Guest Editor:

**Prof. Dr. Vladimir Galvita**

Laboratory for Chemical  
Technology, Universiteit Gent,  
Ghent, Belgium

Deadline for manuscript  
submissions:

**closed (15 October 2021)**

### Message from the Guest Editor

Dear Colleagues,

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.

