## **Special Issue**

## Nickel-Based Catalysts for Hydrocarbon Fuel Reforming

### Message from the Guest Editors

Nickel-based catalysts are widely used in various industries. The processes of reforming hydrocarbons, in particular natural gas, are the main method of hydrogen and synthesis gas production. In addition, nickel-based catalysts are widely used in thermochemical waste-heat recuperation systems due to their low cost and high efficiency. Despite significant advances in the development of nickel-based catalysts, there is great potential for increasing their efficiency.

The aim of this Special Issue is to cover promising recent research and novel trends in the field of nickel-based catalysts for various chemical processes, including hydrocarbon reforming. The development of nickel-based catalysts involves many aspects of materials science, including synthesis, reactivity, mechanical properties, flow stability and contact mechanics, as well as gas-solid reaction engineering. Studies offering material design would also be of great interest. Moreover, flow dynamics and heat and mass transfer processes are interesting for the development of new nickel-based catalysts; these topics also can be discussed in this Special Issue.

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### Deadline for manuscript submissions

closed (15 March 2021)



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