



## Catalysis by Metal-Oxide Nanostructures

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (30 April 2021)**

### Message from the Guest Editor

Dear Colleagues,

Research into the subject of catalysis by metal-oxide nanostructured materials has been increasing over the past few years. Metal oxides (single or mixed) have been successfully used as catalysts, themselves, or as supports for single and multi-noble metals. Examples of metal oxides are silica, alumina, titania, zirconia, zeolites,  $\text{Fe}_2\text{O}_3$ ,  $\text{Fe}_3\text{O}_4$ ,  $\text{ZnO}$ , polyoxometallates (POMs), perovskites, phosphates, multicomponent mixed oxides (molybdates, tungstates, antimonates, etc.), hexaaluminates, etc. Such materials have been successfully used in several catalytic reactions of crucial importance, such as total and partial (selective) oxidation, hydrodesulphurisation, depollution,  $\text{deNO}_x$ ,  $\text{deSO}_x$ , acid and base catalyses, biomass conversion, photocatalysis, among others.

This Special Issue aims to cover the recent developments in the field in catalysis. Papers dealing with any type of metal oxide nanostructures, their preparation, characterisation, use for a type of catalytic reaction, mechanistic studies, and theoretical studies, among others, are most welcome. We hope you will contribute a paper.

Dr. Sónia Carabineiro  
*Guest Editor*





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## Message from the Editor-in-Chief

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