



Functional Oxides for Heterogeneous Catalysis

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Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Heterogeneous catalysis is the engine of chemical industry. Without heterogeneous catalysis that enabled mass production of chemicals, the current society as we know now would have never been possible. Functional oxides can show emergent properties for heterogeneous catalysis alone or in tandem with dispersed metal. The existence of oxygen vacancies and other extended defects, along with new Operando characterization techniques, enriches the field of oxide catalyst more than ever.

For this Special Issue on “Functional Oxides for Heterogeneous Catalysis”, researchers can report findings on oxide catalyst from experimental or theoretical approaches. Given your reputed experience in this field, and the outstanding impact of your previous publications, we would very much appreciate your contribution in this Special Issue of ChemEngineering.

- Catalysis
- Oxides
- Surfaces
- Defects
- Strong metal-support interaction
- Characterization
- Electronic structure





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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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Journal Rank: JCR - Q2 (Engineering, Chemical) / CiteScore - Q1 (General Engineering)

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