

Special Issue

Ceria-Based Heterogeneous Catalysis: Experimental and Theoretical Study

Message from the Guest Editors

Cerium is the 25th most abundant element on Earth; therefore, its uses and applications should be examined due to their potential benefits. This crystalline material of ceria has attracted much attention due to its redox and acid-base properties and wide range of applications for chemical transformations and energy applications. Ceria is extensively used in heterogeneous catalytic reactions as a promoter and support material, including thermocatalysis, three-way catalysis, electrocatalysis, and photocatalysis. This Special Issue is going to be focused on “Ceria-Based Heterogeneous Catalysis: Experimental and Theoretical Study”, featuring up-to-date research findings in this field. The call includes but is not limited to heterogeneous catalysis, and also research on ceria-based biomedical materials and solid-state electrolytes. We hope that this Special Issue can put forward the development of ceria-based catalysts and novel catalytic concepts.

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