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Symmetry in Heterogeneous Catalysis: Topics and Advances

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Message from the Guest Editors

Symmetry, though sometimes unnoticed, plays a pivotal role in the field of heterogeneous catalysis. Whether through the interplay between the geometry of active catalytic sites and that of molecular intermediates, which determine the selectivity of a given catalyst, or the effects of crystallographic orientation in nanoparticles on their affinity towards specific adsorbates and, by extension, reaction products, the implications of symmetry in catalysis are pronounced. Acknowledging the significance of symmetry, we proudly introduce Volume II of this Special Issue of *Symmetry* devoted to the theme of “Heterogeneous Catalysis: Topics and Advances”.



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Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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