

Special Issue

Advances in Heterogeneous Catalysis for Green Chemistry

Message from the Guest Editors

Currently, the world faces severe energy and environmental challenges. With the rapid development of green chemistry, heterogeneous catalysis has emerged as a pivotal driving force due to its efficiency and recyclability. This Special Issue focuses on new advances in photocatalysis, thermal catalysis, electrocatalysis, and related fields, covering applications in clean energy production, environmental pollutant degradation, and green synthesis processes. In this Special Issue, catalyst design, reaction mechanisms, and industrialization challenges will be discussed, aiming to facilitate sustainable chemical transformations. We cordially invite academic colleagues and industry peers to contribute and explore solutions for creating a low-carbon future.

Guest Editors

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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