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Advancing Catalysis: Bridging the Gap from Academic Innovation to Industrial Application

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Message from the Guest Editor

Catalysis plays a pivotal role in numerous industrial processes, offering enhanced efficiency, selectivity, and sustainability. Despite significant academic breakthroughs in catalytic science, the translation of these innovations into industrial practice often faces substantial challenges. This Special Issue seeks to address these challenges by presenting research that exemplifies the successful integration of academic discoveries into industrial processes.

Topics of interest include, but are not limited to, the following:

- Novel catalytic materials and their industrial applications;
- Advances in homogeneous and heterogeneous catalysis;
- Case studies of successful academic–industrial collaborations;
- Scaling up catalytic processes from laboratory to industry;
- Catalysis in sustainable and green chemistry;
- Computational and experimental approaches in catalyst design and optimization;
- Catalytic processes in energy conversion and storage.



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Special Issue



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Message from the Editor-in-Chief

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