

## Special Issue

# Feature Papers in Catalysis for Pharmaceuticals

### Message from the Guest Editors

Catalysis is crucial in the pharmaceutical industry, enabling various therapeutic compounds' efficient and sustainable production. Its significance lies in enhancing chemical processes' efficiency, selectivity, and environmental compatibility. Catalysts lower the activation energy required for reactions, allowing pharmaceutical compounds to be produced more quickly and cost-effectively under milder conditions. Environmentally, catalysis allows reactions to proceed with better resource utilization, reducing the pharmaceutical industry's overall environmental footprint. Green catalysts, such as biocatalysts and recyclable heterogeneous catalysts, further enhance sustainability by reducing the need for hazardous reagents. Furthermore, catalysis is key in developing innovative pharmaceuticals, enabling the synthesis of complex molecules. This Special Issue aims to explore emerging trends in pharmaceutical catalysis, encompassing homogeneous and heterogeneous processes, as well as photo-, electro-, and enzymatic catalysis for generating bioactive compounds.

- catalysis
- pharmaceuticals
- bioactive compounds
- selectivity
- green chemistry

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### Guest Editors

Prof. Dr. Andres Alcantara  
Dr. Teodora Bavaro  
Dr. Jesús Fernandez Lucas

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### Deadline for manuscript submissions

closed (30 November 2025)



## Catalysts

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

Prof. Dr. Keith Hohn  
Carl R. Ice College of Engineering, Kansas State University, Manhattan,  
KS, USA

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