

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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