Special Issue

Applications of Catalysis in Organic Chemistry: Sustainable Catalysts for Sustainable Processes

Message from the Guest Editor

Catalysis plays a fundamental role in modern organic chemistry, enabling the development of more efficient and selective transformations while reducing energy consumption and waste generation. In the context of sustainable chemistry, the design and application of sustainable catalysts have emerged as a key strategy to minimize the environmental impact of chemical processes. This Special Issue aims to showcase the latest advances in sustainable catalysis applied to organic transformations, highlighting innovative approaches that utilize catalysts derived from natural sources or synthesized through environmentally benign methods. These sustainable catalysts include polysaccharides, natural clays, bio-derived materials, and catalysts obtained through green synthesis methodologies. Their applications extend across various fields of organic catalysis. Additionally, this issue seeks to explore new sustainable processes that leverage these catalysts to develop greener and more efficient methodologies.

- sustainable catalysis
- green chemistry
- CO2 conversion
- bio-derived catalysts
- renewable materials
- ecofriendly organic synthesis

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