

Special Issue

Catalytic Upgrading of Glycerol: Toward Sustainable and High-Value Products

Message from the Guest Editors

This Special Issue, titled “Catalytic Upgrading of Glycerol: Toward Sustainable and High-Value Products”, will gather recent advances and novel insights in the field of glycerol valorization. Topics of interest include, but are not limited to, the following:

- Synthesis strategies of new catalytic materials to address the challenges of catalyst stability, selectivity, and recyclability in practical applications;
- Novel reaction pathways and mechanisms;
- Kinetics of catalytic reactions;
- Process optimization and intensification;
- Integration into biorefinery schemes;
- Sustainability and techno-economic evaluations.

We invite contributions that explore both fundamental and applied aspects of glycerol conversion, with a particular focus on innovative catalytic systems and emerging technologies that promote a circular and low-carbon economy.

Original research papers, review articles, and short communications are all welcome in this Special Issue.

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