

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.

Guest Editors

Prof. Dr. Francisco Pompeo

1. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad Nacional de La Plata (UNLP), Calle 1 esq. 47, La Plata 1900, Argentina
2. Argentine National Research Council (CONICET), Calle 47, 257, La Plata 1900, Argentina

Prof. Dr. Martin Gatti

1. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad Nacional de La Plata (UNLP), Calle 1 esq. 47, La Plata 1900, Argentina
2. Argentine National Research Council (CONICET), Calle 47, 257, La Plata 1900, Argentina

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

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