Special Issue

New Glycerol Upgrading Processes

Message from the Guest Editor

Glycerol has traditionally been produced from tallow and oil by acid hydrolysis, and it can also be produced by several microorganisms, the latter method being a promising biorefinery approach in the event that glycerol production needs to be enhanced. However, presently, most of the glycerol production comes from the biodiesel production process as a side stream, which has led to a saturation of the existing traditional glycerol market in the chemical, food, and pharmaceutical sectors. As a consequence, prices have remarkably dropped, thereby affecting the profitability of biodiesel production processes. Therefore, glycerol—either crude or pure—could be a waste to be disposed of or, on the other hand, it could become an opportunity by turning it into a platform chemical. The aim of this Special Issue is to provide a general and up-to-date overview of the wide variety of processes and products that are now being devised, researched, and implemented using glycerol as a starting building block and carbon source for chemical synthesis, thermochemical transformations, and biochemical/microbial processes.

Guest Editor

Prof. Dr. Miguel Ladero Galán

FQPIMA Group, Department of Chemical Engineering, College of Chemical Sciences, Complutense University of Madrid, 28040 Madrid, Spain

Deadline for manuscript submissions

closed (30 April 2020)

Catalysts

an Open Access Journal by MDPI

Impact Factor 3.8
CiteScore 6.8

mdpi.com/si/20208

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

mdpi.com/journal/catalysts

Catalysts

an Open Access Journal by MDPI

Impact Factor 3.8
CiteScore 6.8

mdpi.com/journal/catalysts

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 12.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2024).

MDPI