Special Issue

Novel Sustainable Processes with Low Environmental Impact Solvents in Biorefining and Chemical Industry

Message from the Guest Editors

The chemical industry faces significant challenges, particularly the environmental impact and resource accessibility. Green chemistry emerges as a fundamental strategy to minimize the environmental impact by converting biological resources into products. Full implementation of green chemistry hinges on employing low environmental impact solvents. This involves adopting emerging solvents such as ionic liquids, eutectic solvents, water, biomass-derived solvents, or carbon dioxide as alternatives to hazardous organic solvents in analytical techniques. The solvents play a crucial role in transforming lignocellulosic biomass into high-value products. The Special Issue aims to offer an extensive and current perspective on the efficient role of low environmental impact solvents in biorefinery and the chemical industry. Topics of interest include, but are not limited to:

- Advancements in Sustainable Processes and Biorefineries
- Research on Green Chemistry's Environmental Impact Mitigation
- Innovative Green Approaches to Biomass Pre-treatment and Fractionation
- Studies on Low Environmental Impact Solvents for Biomass Transformation

Guest Editors

Dr. Raquel Cañadas
Advanced Biofuels and Bioproducts Unit, CIEMAT, Av. Complutense, 40, 28040 Madrid, Spain

Dr. Cristina Álvarez
Advanced Biofuels and Bioproducts Unit, CIEMAT, Av. Complutense, 40, 28040 Madrid, Spain

Deadline for manuscript submissions

closed (15 October 2024)

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/si/193102

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

mdpi.com/journal/processes

Processes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5

mdpi.com/journal/processes

About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))

MDPI