



Bioeconomy: Current Trends, Challenges, and Future Prospects

Guest Editor:

Dr. Sarat Chandra Togarcheti

School of Chemistry, Trinity
College Dublin, The University of
Dublin, College Green, Dublin 2,
Ireland

Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editor

The climate crisis across the globe has driven interest towards the production of biochemicals and bioenergy from renewable resources. The sustainable use of bioresources will pave the way to the decarbonisation of our society and reduced dependency on fossil-based resources. Unleashing the economic potential of marine and forest eco-systems will boost the bio-based economy, while addressing the climate crisis. Utilizing biological resources and their by-products for the production of value-added products through fermentation and biocatalysis results in a decrease in energy and water consumption, and in a reduction of toxic waste. This Special Issue invites outstanding contributions from researchers exploring marine and forest bioresources for developing a sustainable bioeconomy. Specific interests of the *Special Issue* include the following:

- Bio-based chemicals from forest residues
- Bioactives from micro- and macro-algae
- Biofuels from agro-industrial wastes for circular economy
- Life cycle and sustainability analysis





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Patricia Luis Alconero
Materials & Process Engineering,
UCLouvain, Place Sainte Barbe 2,
1348 Louvain-la-Neuve, Belgium

Message from the Editor-in-Chief

Clean Technologies (ISSN 2571-8797) is an international, open access journal of novel scientific research on technology development aimed at reducing the environmental impact of human activities. *Clean Technologies* publishes reviews, regular research papers, communications and short notes which show a significant advance in the development of sustainable technology that reduces energy consumption, environmental pollution and/or the use of water and nonrenewable resources. Our aim is to encourage scientists to publish their experimental and theoretical research in detail as open access, serving a trustable base of advance for the scientific community.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Inspec](#), [AGRIS](#), [RePEc](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Engineering, Environmental*) / CiteScore - Q1 (Environmental Science (miscellaneous))

Contact Us

Clean Technologies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cleantechnol
cleantechnol@mdpi.com
[X@Cleantech_MDPI](#)