



Processing, Production and Prospects of Biomass

Guest Editor:

Dr. Cataldo De Blasio

Faculty of Science and
Engineering, Energy Technology,
Åbo Akademi University, 20500
Turku, Finland

Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editor

From biomass, we can obtain biofuels that, in turn, could be converted to energy. Nevertheless, the production of biomass requires a large amount of land and water; its large-scale production will also cause damage to forests and soils. In addition, biomass production aimed at energy conversion can be seasonal, and its production is location dependent. Damage to the land provided by intensive biomass production will also affect the food supply, further causing food security problems and higher food prices. This is one motivation for which second- and third-generation biofuels are preferred to the first generation.

The negative social impact of biomass usage must be addressed to cater for real sustainable development. This demands higher-performance and cost-effective technologies. In addition, we need to efficiently implement concepts like reuse, recycle, valorization and circular economy.

This Special Issue aims to discuss the processing, production and prospects of biomass. We welcome research results from researchers





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/AtApplsci)