

Special Issue

Sustainable Energy and Fuels from Biomass and Plastic Waste

Message from the Guest Editors

Energy demand has been rising remarkably due to increasing population and urbanization. The global economy and society are significantly dependent on energy availability because it is involved in almost every facet of human life and activity. Natural resources for energy are being depleted while continuing to be a source of pollution that threatens vegetation and human and animal health. Therefore, appropriate waste-to-value-added product technologies offer benefits of avoiding fossil fuels for energy generation, utilization, and development of industrial products. Since energy growth is linked to the comfort of man, reliable and affordable energy is very important for the sustainable existence of humans on planet Earth. In the area of the valorization of biomass and plastic waste into value-added products, comprehensive and dependable information on characterization, pretreatment/fractionation, and valorization is essential. This Special Issue will provide information on these areas/aspects, thereby bridging the gap in the knowledge in these areas in the field, and providing an overview of alternatives to the traditional sources of fuels and chemical production.

Guest Editors

Dr. María Ángeles Martín-Lara

Department of Chemical Engineering, Faculty of Sciences, University of Granada, 18071 Granada, Spain

Prof. Dr. Rafael Rodríguez Solís

Department of Chemical Engineering, University of Granada, 18010 Granada, Spain



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/144816

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

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



Deadline for manuscript submissions

closed (10 March 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](http://mdpi.com/journal/applsci)

About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

