

Special Issue

Biochar Role in Environmental Sustainability and Circular Economy

Message from the Guest Editors

The environment and the sustainability of the world are being threatened by climate change. To pursue efforts to reduce greenhouse gas emissions and reach a "zero-waste society", a blocking pathway for the natural carbon cycle must be found. To achieve these goals, converting biomass to biochar can provide both environmental and health benefits. The conversion of end-products to biochar could facilitate zero-waste and the development of a circular economy. Biomass waste materials appropriate for biochar production include crop residues (both field residues and processing residues, such as nutshells, fruit pits, and bagasse); yard, food, and forestry wastes; and animal manures. The feedstock used for biochar production and the processing conditions mainly define the yield and quality of the final product, and therefore, the biochar applications. Thus, biochar has applications in many fields, such as agriculture and horticulture, construction and activated carbon. The papers selected for this Special Issue were subject to a rigorous peer-review procedure with the aim of the rapid and wide dissemination of research results, developments, and applications.

Guest Editors

Dr. Anastasia Anceschi

1. CNR-STIIMA, Italian National Research Council, Institute of Intelligent Industrial Technologies and Systems for Advanced Manufacturing, Corso G. Pella 16, 13900 Biella, Italy

2. Chemistry Department, University of Turin, V. P. Giuria 7, Torino, Italy

Dr. Claudio Cecone

Department of Chemistry, University of Torino, Via Pietro Giuria 7, 10125 Torino, Italy

Deadline for manuscript submissions

closed (15 November 2023)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/110482

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

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)