

Special Issue

Engineered/Modified Biochar in Agricultural Practices: Production, Properties, Agricultural and Environmental Sustainability

Message from the Guest Editor

Biochar is a solid material derived from thermochemical conversion of biomass under an oxygen-limited environment. Various biochars have been produced from wastes of agricultural and domestic activities. When various biochars were incorporated into current agricultural practices, the biochar-mediated agricultural practices resulted in significantly enhancing soil fertility/health, greater crop productivity, healthy microbial communities, water quality, soil remediation, and greenhouse gas emission control. Recently, there have been active studies to produce, characterize, and apply engineered and modified biochar for enhancing agricultural and environmental sustainability in agricultural practices. The engineered and modified biochars include chemically and microbially functionalized biochar, activated biochar and biochar composites. Thus, this Special Issue deals with production, properties, and applications of engineered and modified biochar for agricultural and environmental sustainability in agricultural practices. Research articles in these topics and relevant areas are highly encouraged for submission to this Special Issue.

Guest Editor

Dr. Eunsung Kan

Texas A&M AgriLife Research Center, Department of Biological and Agricultural Engineering, Texas A&M University, 400 Bizzell St, College Station, TX 77843, USA

Deadline for manuscript submissions

closed (15 May 2022)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/84262

Agronomy

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



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



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)