



From Waste to Fertilizer in Sustainable Agriculture

Guest Editors:

Dr. Vladimír Frišták

Department of Chemistry,
University of Trnava,
Hornopotočná 23, 918 43 Trnava,
Slovakia

Dr. Martin Pipiška

Department of Chemistry,
University of Trnava,
Hornopotočná 23, 918 43 Trnava,
Slovakia

Deadline for manuscript
submissions:

closed (15 December 2021)

Message from the Guest Editors

In order to meet the global increase for food supplies at extreme growth rates of the human population, inorganic fertilizers and chemical pesticides have been intensively applied to improve the yield of key crops. The need for sustainable fertilization with minimal impact on the environment has started the search for sources of potential fertilizer alternatives for application in agronomy. This has generated interest in renewable feedstock from biomass waste. Many of these wastes, such as plant and animal residues, sewage sludge or animal excrements, are disposed of in landfills, composted or incinerated. However, these materials are valuable sources of nutrients for plant production. Additionally, the suitable pretreatment of input biomass feedstock (composting, pyrolysis, hydrothermal carbonisation, gasification) can lead to the production of ecotoxicologically safe products in sustainable agriculture. We would like to invite researchers and scientists to provide excellent advances on the various aspects of waste utilization as potential soil fertilizers and additives to improve soil characteristics and crop yields in sustainable agriculture.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
School of Life and Environmental
Sciences, The University of
Sydney, Sydney, NSW 2006,
Australia

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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, RePEc, and other databases.

Journal Rank: JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

Contact Us

Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)