



Sustainable Bioprocess for Agricultural Waste Valorization

Guest Editors:

Prof. Dr. Pradeep Verma

Department of Microbiology,
Bioprocess and Bioenergy
Laboratory, Central University of
Rajasthan, Rajasthan 305817,
India

Dr. Venkatesh Chaturvedi

Assistant Professor, School of
Biotechnology, Banaras Hindu
University, Varanasi, India

Deadline for manuscript
submissions:

closed (15 March 2023)

Message from the Guest Editors

The production of agricultural goods has increased manifold, and to suffice the need of growing populations, it will once again greatly increase in the near future. However, this increase in the production of agricultural goods is also accompanied by a large amount of waste. The degradation of these huge amounts of agricultural residues is a gigantic problem worldwide. Lignocellulosic-rich agricultural residues have been found to be an efficient source of biofuel, bio-oils, high-value compounds, and intermediate compounds for the commercially important biorefinery alternatives to petroleum-refinery-based chemicals. Thus, the valorization of agricultural biomass is a great opportunity and can be exploited for a greener future that supports both environmental conservation and meets the chemical and energy needs of mankind. Similarly, the development of efficient hydrolytic enzymes and fermenting strains via the genetic engineering and system biology approach can lead to enhanced efficiency in saccharification and fermentation. This Special Issue focuses on the development and assessment of these technologies and bioprocesses that can result in enhanced biomass valorization.





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 - Q1 (Plant Science)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
X@AgricultureMdpi