Special Issue

Recent Advances in Polysaccharides and Their Derivatives for Wastewater Treatment and Drug Delivery Applications

Message from the Guest Editors

Polysaccharides are considered the most essential natural polymers which have gained remarkable attention for various applications, particularly in wastewater treatment and drug delivery fields. Improving the drinking water quality is a crucial topic for global governments and industrial and social sectors. Water is contaminated with various pollution sources including heavy metal ions, organic pollutants (such as synthetic dyes, pesticides, and residual antibiotics), and pathogens that threaten human health and ecosystems. On the other hand, drug delivery systems have fascinated interest in biomedical and pharmaceutical applications in recent years to deliver the therapeutic agents to the target site through systemic circulation to eliminate overdosing drugs and increased patient compliance. Owing to the outstanding physicochemical properties of polysaccharides such as their abundance in nature, low-cost processing, biocompatibility, biodegradability, non-toxicity, water solubility, and bioactivity, they play an important role in the development of high-efficient adsorbents as pollutants' removal and targeted vesicle for various therapeutic drugs.

Guest Editors

Dr. Emad S. Goda

Department of Chemistry, Hannam University, Daejeon 305-811, Korea

Dr. Mahmoud H. Abu Elella

Chemistry Department, Faculty of Science, Cairo University, Giza 12613, Egypt

Deadline for manuscript submissions

closed (15 December 2023)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/130910

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

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



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)

