

Special Issue

Ecosystems: Enhancing Biological Wastewater Treatment and Resource Recovery

Message from the Guest Editor

The Issue highlights several key technologies. A significant focus is placed on aerobic granular sludge (AGS), including photo-granules that integrate microalgae and bacteria. These granular ecosystems can enhance nutrient and emerging contaminant removal, reduce energy consumption, and increase added value. Secondly, the Issue dedicates substantial attention to anaerobic ammonium oxidation (Anammox). Research on this area focuses on stabilizing these slow-growing bacteria within engineered communities to achieve robust, energy-efficient nitrogen removal, thereby overcoming a major bottleneck for mainstream implementation. Collectively, the research underscores the potential of biotechnology to enable low-carbon, efficient treatment of nutrients and emerging contaminants, thereby providing a potential direction for the development and application of advanced biotechnology. It also possesses functionality, stability, and resource recovery capabilities, moving us closer to truly sustainable water and waste management.

Guest Editor

Dr. Wenli Huang

College of Environmental Science and Engineering, Nankai University,
Tianjin 300350, China

Deadline for manuscript submissions

3 January 2027



Sustainability

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.9



mdpi.com/si/267133

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 4.1
CiteScore 8.9



[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)