



Towards Sustainability and Green: Decarbonizing Water Supply and Drainage

Guest Editors:

Dr. Ranbin Liu

School of Environment and Energy Engineering, Beijing University of Civil Engineering and Architecture, Beijing 100044, China

Dr. Kai He

School of Civil Engineering; Sun Yat-sen University, No. 2 University Road, Zhuhai 519082, China

Dr. Cheng Shen

School of Environment and Natural Resources, Zhejiang University of Science & Technology, Hangzhou 310000, China

Deadline for manuscript submissions:

closed (23 September 2023)



mdpi.com/si/140139

Message from the Guest Editors

Dear Colleagues,

As an important part of urban infrastructure and ensuring the normal life of residents and the healthy development of the economy, the urban water sector, mainly comprising water supply and drainage, plays a key role in sustainable urbanization and continuous welfare improvement. However, the urban water sector is also facing the challenges of being labeled as a high energy consumer and greenhouse gas (GHG) contributor. Thus, this Special Issue is introduced in order to integrate inspiring practices and advancements in carbon reduction in water supply and drainage. The scope of the Special Issue covers a wide array of topics, including, but not limited to, the following:

- Carbon accounting and methodologies in the water sector;
- Non-CO₂ emission monitoring practices in sewer or treatment plant;
- N₂O production and minimization in wastewater management;
- Energy efficiency improvement and reduction in the water sector;
- New technologies or process optimization to reduce non-CO₂ emissions in wastewater collection and treatment;
- Carbon reduction strategies and pathways;
- Good practices in energy recovery and the valorization of wastewater
- ...

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *Sustainability* publishes original research articles, review 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.

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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)