



Wastewater and Solid Waste Treatment

Guest Editor:

Dr. Mingu Kim

Chemical and Biochemical
Engineering, University of
Western Ontario, London, ON
N6A 3K7, Canada

Deadline for manuscript
submissions:

closed (31 October 2020)

Message from the Guest Editor

Fast-growing industrialization and urbanization have dramatically increased energy demand and the discharge of nutrients. With an increasing shortage of energy resources and concerns of environmental pollution, energy-efficient and sustainable pollution control is critical for the optimization of wastewater treatment plants (WWTPs). The main current challenges of WWTPs which drive innovation in the wastewater industry include nutrients and biosolids management as well as energy optimization. Co-digestion of organic-rich wastes with municipal sludge is a promising energy recovery technology to increase specific methane production per unit of influent solids significantly.

This Special Issue invites original research papers and critical reviews with an emphasis on the following topics: (i) advances in biological nutrient removal technology; (ii) modeling and optimization of BNR processes; (iii) co-digestion technology; and (iv) development of technology for energy-neutrality in WWTPs.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and
Technology, Parthenope
University of Naples, Centro
Direzionale, Isola C4, 80143
Napoli, Italy
2. State Key Joint Laboratory of
Environment Simulation and
Pollution Control, School of
Environment, Beijing Normal
University, No. 19 Xijiekouwai
Street, Beijing 100875, China

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **ESCI (Web of Science)**, **PubAg**, **AGRIS**, **GeoRef**, and **other databases**.

Journal Rank: CiteScore - Q1 (*Ecology, Evolution, Behavior and Systematics*)

Contact Us

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

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

mdpi.com/journal/environments
environments@mdpi.com
[X@Environ_MDPI](#)