Special Issue

Sustainable Environmental Engineering in Water Resource Recovery Facility Design with AI Tools

Message from the Guest Editor

Given the impending implementation of the maximal contaminant level (MCL) of 4 ng/l PFAS by the US EPA in 2025, the focus of this Special Issue is on designing innovative Water Resource Recovery Facilities (WRRFs) or desalination processes for brackish or seawater to meet drinking water requirements. This Special Issue aims to present sustainable engineering design, analysis, and assessment methods that contribute to achieving the goals of a circular water economy in sustainable environmental engineering. We welcome original research articles and reviews addressing various research areas, including but not limited to:

- Innovative technologies crucial for Water Resource Recovery Facilities (WRRFs).
- Topics encompass micro-sieving, Anammox, moving bed biological reactor, thermal hydrolysis of bio-solids, recovery of nutrients through struvite precipitation, UV disinfection, desalination of brackish water, and resource mining from desalination brine.
- Evaluation of the capital (CAPEX) and operational (OPEX) expenditures associated with innovative designs of circular water economies.

Guest Editor

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Deadline for manuscript submissions

closed (6 January 2025)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/198765

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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.

Editor-in-Chief

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