

Special Issue

Life Cycle and Risk Assessment for Water and Wastewater Infrastructure

Message from the Guest Editor

Access to adequate water and sanitation services is basic human right and vital to human health. However, much of the global population is living without adequate access to water and wastewater infrastructure.

Meanwhile, the existing water and wastewater systems are facing a number of challenges such as climate change, aging infrastructure, financial shortfall, and difficulty in meeting increasingly stringent water quality goals. This Special Issue requests studies on theory development, method advancement and applications, and associated reviews/case studies in the areas of life cycle and risk assessment for water and wastewater infrastructure. The complementary topics include but are not limited to the following:

- System theories for assessing the sustainability and resilience of and equity in water and wastewater infrastructure;
- Life cycle assessment methods and case studies of water and wastewater infrastructure;
- Health risk assessment methods and case studies of water and wastewater infrastructure;
- Climate impacts, vulnerability, adaptability and resilience of water and wastewater infrastructure.

Guest Editor

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Deadline for manuscript submissions

closed (25 April 2025)



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About the Journal

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.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).