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Nature-Based Solutions to Reduce the Flood Risk in Cities and Peri-Urban Areas

Dear Colleagues,

Guest Editors:

Message from the Guest Editors

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Deadline for manuscript submissions:

closed (31 December 2021)



This special issue aims to publish high-quality research papers on the interdisciplinary field of nature-based solutions to mitigate flood risk and provide sustainable water treatment solutions in cities and peri-urban areas. Climate change is causing an increased number of climate extreme consequences such as sudden floods and increased droughts. Both of these can result in significant problems in water security, as sudden floods can create significant pollution while droughts will reduce the availability of fresh water.

This special issue seeks contributions spanning a broad range of nature-based solutions for water retention and flood control solutions related to, but not limited to:

- Wetland systems
- Integrated constructed wetlands
- Biofilters for storm water management
- Water absorbing geocomposites
- Green roofs and green walls
- Hybrid solutions and bioreactors
- Microbial electrosynthesis cells and microbial fuel cells

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- Bioswales
- Buffer strips and filter strips
- Permeable layers including pavements
- Sustainable floor recenting and the Bioretention scients of the Bioretentin scien
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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

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