



## New Technologies in Water Treatment and Water Reuse

Guest Editor:

**Dr. Seong-Nam Nam**

Department of Civil and  
Environmental Engineering,  
University of South Carolina,  
Columbia, SC 29208, USA

Deadline for manuscript  
submissions:

**closed (28 February 2022)**

### Message from the Guest Editor

Dear Colleagues,

Water treatment is becoming of great importance at global scales due to climate-driven and anthropogenic impacts on water resources. As alternatives, water reuses such as treated wastewater, desalination, and rainwater harvesting have been applied for securing water resources. Recent advances of data analysis techniques (e.g., neural networks, machine learning) have enabled us to better understand and predict the efficiencies of treatment processes and to integrate monitoring data with process control and optimization.

The aim of this Special Issue is to provide scientific knowledge on treatment techniques, and discoveries and applications of new materials for water treatment and reuse purposes. We welcome both research papers and technical notes, evaluating the treatability of recently developed technologies/processes covering the scope.

Studies may emphasize on: (i) state-of-the-art technologies and methodologies for secure water treatment; (ii) advanced materials to tackle the emerging pollutants such as antibiotics, antibiotic resistance genes, microplastics, etc.; and (iii) modeling approaches or machine learning techniques for prediction and control.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Benjamin McLellan

Graduate School of Energy  
Science, Kyoto University,  
Yoshida-honmachi, Sakyo-ku,  
Kyoto 606-8501, Japan

## Message from the Editor-in-Chief

Responsible prosperity is underpinned by sustained access to resources. *Resources*, publishes excellent science and scholarship which transforms understanding, practices and policies for conserving all natural resources—from water, land and air; to plant and animal biodiversity; to minerals and energy and their interconnection across scales. Significantly, we invite high quality submissions from natural and social sciences.

Build impact from your research by submitting to *Resources*, an open-access journal connecting you with data, insights, ideas and evidence needed to shape a better world.

## 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), GeoRef, PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Sciences*) / CiteScore - Q1 (Nature and Landscape Conservation)

## Contact Us

---

Resources Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/resources](http://mdpi.com/journal/resources)  
[resources@mdpi.com](mailto:resources@mdpi.com)  
[X@resources\\_mdpi](https://twitter.com/resources_mdpi)