



Innovative Water and Wastewater Treatment Technologies for Supporting Global Sustainability

Guest Editors:

Prof. Dr. Hyunook Kim

Department of Environmental Engineering, University of Seoul, Seoul 02504, Republic of Korea

Prof. Dr. Pen-Chi Chiang

Graduate Institute of Environmental Engineering, National Taiwan University, 71 Chou-Shan Rd., Taipei 10673, Taiwan

Prof. Dr. Wenzhi Cao

College of the Environment & Ecology, Xiamen University, Xiamen 361102, China

Deadline for manuscript submissions:

closed (30 April 2019)

Message from the Guest Editors

Treating water and wastewater demands a significant quantity of energy input, placing a financial burden on society. Therefore, cost- and energy-efficient water and wastewater treatments have become an important topic for the scientific community. Innovation should be created in water or wastewater treatment technology to economically remove both macro- and micro-pollutants from water, produce pristine potable water, without any negative impact on the environment.

Potential topics include, but are not restricted to:

- Assessment of environmental and health risks caused by chemical pollutants in drinking water and wastewater
- Treatment of conventional and new organic/inorganic pollutants in water
- Fate of CECs in water treatment processes
- Energy-efficient treatment technologies for nitrogen and/or phosphorus in wastewater
- Automatic control of water and wastewater treatment processes for nitrogen and phosphorus
- Economic analysis of water and wastewater infrastructure
- Strategy for improving sustainability of water and environment

Keywords: Water/Wastewater Treatment, Compounds of emerging concerns, Water-Energy Nexus, Sustainability





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

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

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

mdpi.com/journal/applsci
applsci@mdpi.com
X@Applsci