

IMPACT FACTOR 3.4



an Open Access Journal by MDPI

Challenges and Opportunities in Wastewater Reuse

Guest Editors:

Prof. Dr. Luigi Rizzo

Department of Civil Engineering, University of Salerno, 84084 Fisciano (SA), Italy

Dr. Irene Michael-Kordatou

Nireas-International Water Research Centre, University of Cyprus, P.O. Box 20537, CY-1678, Nicosia, Cyprus

Deadline for manuscript submissions:

closed (30 November 2019)

Message from the Guest Editors

Nowadays, it is becoming increasingly clear that urban treated wastewater, whose reuse has become an important component of long-term water resources management worldwide, is a key source of both chemical and biological contaminants of emerging concern (CECs). Current water quality guidelines for reclaimed wastewater predominantly address risks associated with the presence of microbial organisms and chemical parameters, such as Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), E. coli, and worms, and in some cases heavy metals, which, however are insufficient for complete risk assessment. Current open challenges related to CECs include (i) their transformation when present in urban wastewater treatment plants and in environmental matrices (soil, groundwater, and surface water), (ii) their accumulation in soil and uptake by plants components, (iii) their biological potency for environmental effects to nontarget organisms, (iv) the evolution and spread of antibiotic resistance determinants, and (v) the development and application of sustainable technologies that are able to remove minimize such microcontaminants wastewater.







IMPACT FACTOR 3.4

citescore 5.5

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. Water invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to technological scientific domains and interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

Contact Us