

Special Issue

Environmental Behavior and Prevention Strategies of Toxic Chemicals in Farmland Soil Within River Basins

Message from the Guest Editor

Understanding the characteristics of farmland soil pollution in river basins is essential for developing targeted prevention strategies that can mitigate these adverse effects. By identifying pollution sources, assessing contamination levels, and understanding the transport and transformation processes of pollutants in soil, researchers can design effective measures to reduce pollutant inputs, enhance soil remediation techniques, and promote sustainable agricultural practices. Such research is pivotal in safeguarding the productivity of farmland, protecting human health, and preserving the ecological integrity of river basins for future generations. In this context, we are proposing this Special Issue in order to present the latest theories, methods, technologies, risk assessments, and case studies related to pollutants in farmland soil. All related manuscripts are welcome to be submitted. Topics of interest include, but are not limited to, the following: pollution characteristics, source apportionments, health and ecological risk assessments, emerging contaminants, heavy metals, persistent organic pollutants, and meta-analyses.

Guest Editor

Prof. Dr. Qing Luo

Key Laboratory of Eco-Restoration of Regional Contaminated Environment, Shenyang University, Shenyang, China

Deadline for manuscript submissions

20 October 2025



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/233510

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

[mdpi.com/journal/
water](https://mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



About the Journal

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 new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,
Toulouse, France

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 (Aquatic Science)