



## Mercury in Fluvial Systems: Distribution and Cycling Processes

Guest Editor:

**Dr. Valentina Rimondi**

Dipartimento di Scienze della  
Terra, Università di Firenze, Via G.  
La Pira 4, 50121 Firenze, Italy

Deadline for manuscript  
submissions:

**closed (13 August 2021)**

### Message from the Guest Editor

Mercury (Hg) is a pollutant of much concern due to its global distribution and toxicity to living organisms. Fluvial ecosystems are crucial sites to investigate Hg biogeochemistry due to the pivotal role of floodplains for human activities. Once they enter rivers, Hg hotspots are rapidly diluted and transported hundreds of kilometers from the original source, and finally redistributed in all sediment of the river corridors ruled out by river hydrodynamics. Sediments then become new nonpoint sources of Hg in rivers, and Hg recycling may last for hundreds of years, leading to great variability in spatial patterns, and difficult management strategies. Additionally, Hg methylation may occur in anoxic sediments, favoring the uptake by local biota.

This Special Issue invites critical reviews, research papers, and communications bringing together knowledge on the behavior of Hg in fluvial environments, including implications for human health, management of contaminated sediment, and future research needs.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Sergio Ulgiati

1. Department of Science and  
Technology, Parthenope  
University of Naples, Centro  
Direzionale, Isola C4, 80143  
Napoli, Italy  
2. State Key Joint Laboratory of  
Environment Simulation and  
Pollution Control, School of  
Environment, Beijing Normal  
University, No. 19 Xijiekouwai  
Street, Beijing 100875, China

## Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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

**Journal Rank:** JCR - Q2 (*Environmental Sciences*) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

## Contact Us

---

*Environments* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/environments](http://mdpi.com/journal/environments)  
[environments@mdpi.com](mailto:environments@mdpi.com)  
✉@Environ\_MDPI