

## Special Issue

# Ecotoxicity of Microplastics

### Message from the Guest Editor

Microplastics are ubiquitous and enduring in our environment. They exist in oceans, rivers, soil, and even airborne particles. Due to their diminutive size, they can penetrate ecosystems readily and persist for extended durations, posing a long-lasting environmental challenge. By comprehending their ecotoxicity, we can assess the extent of the harm they inflict on ecosystems over time and their impacts on human food sources.

This special issue welcomes research or review papers exploring or critically presenting the detrimental impacts of microplastics across different environmental systems, including land and water ecosystems. Its scope also includes (1) how microplastics are introduced into the environment, their persistence within various ecosystems, and their effects on biodiversity; (2) the potential toxicity of microplastics to a diverse array of life forms, encompassing microorganisms, invertebrates, fish, and land animals, (3) their toxicity mechanisms such as physical harm, chemical leaching, and bioaccumulation, and (4) evaluation of their long-term effects on food webs and ecosystem health.

---

### Guest Editor

Prof. Dr. Kuok Ho Daniel Tang

Department of Environmental Science, The University of Arizona,  
Tucson, AZ 85721, USA

---

### Deadline for manuscript submissions

closed (20 October 2025)



## Environments

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.7



[mdpi.com/si/231298](https://mdpi.com/si/231298)

*Environments*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[environments@mdpi.com](mailto:environments@mdpi.com)

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





# Environments

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.7  
CiteScore 5.7



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



## About the Journal

### 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.

---

### 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. School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xijiekouwai Street, Beijing 100875, China

---

### Author Benefits

#### 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)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2025).