

## Special Issue

# Microplastics, Nanoplastics, and Crustacea: Uptake and Impacts

### Message from the Guest Editor

Micro- and nanoplastics are frequently used catch-all terms for a diverse array of polymers, in combination with their additives and fillers. Observations of the microplastics in the environment have been accompanied by reports of uptake by aquatic species. Key amongst these have been the crustaceans of a range of sizes and feeding modes. The observations have led to global concern regarding their impacts on the individual species and wider communities, with a particular focus on species at the bottom of the food chain. Improved sampling protocols and detection limits have also highlighted the potential threat posed by nanoplastics. The effects of uptake of a range of micro- and nanoplastics by crustaceans have been observed under laboratory conditions. The studies have examined a number of endpoints. The issue aims to bring together research on the uptake and impacts of micro- and nanoplastics by crustacean species. In comparing the observed effects of plastics of a varied sizes, polymers and particle morphologies, we hope to highlight the species and particles types of highest concern and to enable extrapolation of secondary effects to the wider environment.

### Guest Editor

Dr. Natalie Welden

School of Interdisciplinary Studies, University of Glasgow,  
Rutherford/McCowan Building, Crichton University Campus, Dumfries  
DG1 4ZL, UK

### Deadline for manuscript submissions

closed (20 September 2021)



## Journal of Xenobiotics

an Open Access Journal  
by MDPI

Impact Factor 4.4  
CiteScore 6.0  
Indexed in PubMed



[mdpi.com/si/77570](https://mdpi.com/si/77570)

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

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

[jox](https://jox.mdpi.com)





# Journal of Xenobiotics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.4  
CiteScore 6.0  
Indexed in PubMed



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

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



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. François Gagné

Aquatic Contaminant Research Division, Environment and Climate  
Change Canada, 105 McGill, Montreal, QC H2Y 2E7, Canada

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, ESCI (Web of Science), PubMed,  
PMC, CAPIus / SciFinder, Embase, and other databases

##### Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q2 (Pharmacology)

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 27.6 days after  
submission; acceptance to publication is undertaken in 2.9  
days (median values for papers published in this journal in  
the first half of 2025).