



*water*

an Open Access Journal by MDPI



## Nanoparticles Toxicity to Marine Organisms—a Nanosized or a Giant Environmental Issue?

Guest Editors:

**Dr. Cláudia Leopoldina Mieiro**

Department of Biology and  
CESAM, University of Aveiro,  
3810-193 Aveiro, Portugal

**Dr. Mário Pacheco**

Department of Biology and  
CESAM, University of Aveiro,  
3810-193 Aveiro, Portugal

Deadline for manuscript  
submissions:

**closed (28 February 2023)**

### Message from the Guest Editors

Thousands of tons of nanoparticles (NPs) are discharged into the water bodies each year, with marine ecosystems as their final destination. The presence of NPs in these systems represents a pressing need to assess their risks to marine organisms. Still, studies on marine biota are limited, as well as those performed under environmentally relevant conditions (realistic concentrations and uptake via). This scarcity is mainly related with limitations driven by the physicochemical properties of NPs (e.g., aggregation in seawater) that will determine their behaviour and bioavailability. The available information on the toxic potential of NPs to marine organisms, points to a wide range, and sometimes contrasting, sub-lethal effects (e.g., oxidative stress, metabolic impairment, genotoxicity and reprotoxicity), depending on the tested concentrations and exposure pathway. This evidence highlights the need to select a set of highly sensitive endpoints, able to identify sub-lethal effects in a large number of species [...]

For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues](https://www.mdpi.com/journal/water/special_issues)

[/Nanoparticles\\_Marine](#)



[mdpi.com/si/70886](https://www.mdpi.com/si/70886)

**Special** issue



*water*



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 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.

## 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

---

Water Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)