Special Issue

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

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, genotoxicty 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/Nanoparticles_Marine

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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

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