Special Issue

Research on Microplastic Pollution in Water and Soil Environment

Message from the Guest Editors

The increasing agricultural mulching production of plastics in recent years has led to severe plastic pollution in the environment. Microplastics (MPs), which are plastics less than 5 mm in length, are even more harmful than larger plastic items, and microplastic pollution has become an emerging environmental issue, especially in water and soil environments. MPs in water and soil environments are extremely diverse and complex. This makes it difficult to detect their abundance, analyze influencing factors, and evaluate the ecological and enviromental risks. Recently, MP additives have also become a major concern to the environment due to their toxicity. Based on the above problems, we mainly focus on MP pollution in water and soil environments, and the main topics are as follows: 1) advanced detection techniques for diverse MP compositions; 2) the distribution characteristics and influencing factors of MPs; 3) the ecological and enviromental risks to plants and animals, evaluated with omics techniques; 4) MP additive compositions; 5) control strategies for MP remediation.

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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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