Special Issue

The Scenery of Bioplastics and Beyond: Unveiling the Environmental Implications for a Sustainable Horizon

Message from the Guest Editors

Bioplastics, derived from renewable resources such as plants, microbes, or agricultural by-products, represent a promising alternative to traditional plastics derived from fossil fuels. Indeed, the inherent biodegradability and reduced carbon footprint of bioplastics align perfectly with the global push for sustainable solutions. However, a comprehensive understanding of the environmental implications, with a focus on water and soil quality and the health status of crop plants, is essential to ensure the environmental sustainability of the use of these biomaterials. This Special Issue aims not only to explore and analyse, in detail, the composition of these materials, but also the environmental implications associated with the adoption of bioplastics in various sectors from agriculture and packaging to medical applications and beyond. In addition, this Special Issue will also accept papers aimed at exploring the environmental compatibility of other bio-based materials, such as biopolymers prepared for the release of functional principles and nutrients, which find application in areas such as medicine and agriculture.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)



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Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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