

Special Issue

Biotechnology Advances to Address Plastic Pollution

Message from the Guest Editor

Over the last century, plastics have become an essential commodity in our daily lives, offering solutions to the needs and challenges of humankind. Millions of tons of these plastics are produced and disposed of every year; most of them are derived from fossil hydrocarbons, and hardly any of them are biodegradable. As a result, the large fraction of plastic waste disposed of in landfills and the natural environment is released into the ecosystem, posing a threat to global ecology. This Special Issue focuses on sustainable biotechnologies that promote a circular economy model for plastics, capitalizing enzymes and microorganisms. We invite authors to submit original research papers and comprehensive reviews covering all aspects of this topic, including, but not limited to, the biosynthesis and biodegradation of plastics and/or biovalorization of plastic waste.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



Bioengineering

an Open Access Journal
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Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



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Editor-in-Chief

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