

Special Issue

Sustainable Polymers and Their Applications

Message from the Guest Editor

Currently, over 90% of synthetic polymers are made from petroleum and natural gas, but the use of fossil fuels contributes to climate change. Fossil fuels are a finite resource and are needed as starting materials for other highly valuable compounds, this has caused their price to increase. Some of the reactants and additives utilized for the production of polymers are toxic. At the end of the life cycle, polymer waste causes major environmental pollution. On average, only 10% of all polymers are recycled. As conventional polymer waste does not readily degrade, it can accumulate in landfills over centuries. Much of this plastic waste ends up in waterways and, ultimately, the Pacific Ocean, where it is harmful to marine animals and enters the human food cycle. Polymer incineration also has a huge impact on environment and can lead to climate change.

Microplastics can now also be found in the atmosphere. Therefore, the need for sustainable polymers is immense.

The Issue welcomes articles and reviews under the topics: renewable polymers; non-toxic or less toxic reactants and additives for the production of polymers; chemically recyclable polymers; biodegradable polymers...

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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