



Sustainable Polymer Technologies for a Circular Economy

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Message from the Guest Editor

Plastics are the “workhorse” material of the modern economy, with multiple functions that help to tackle a number of the challenges facing our society. However, after a first short use cycle, most of its value is lost to the economy. Therefore, it is high time to implement the Circular Economy principles in the plastic sector. This Special Issue focuses on recent research studies devoted to enabling better economic and environmental advances in the plastic packaging value chain that can successfully accelerate the transition of the plastic industry from its traditional linear economy to a more valuable and sustainable model. Potential topics include but are not limited to recent advances in the following areas:

- Plastics towards a Circular Economy
- Biopolymers
- Green composites
- Natural additives for plastic formulations
- Waste management of plastics
- Biorefinery system design
- Reduction of plastic packaging leakage
- Chemical and physical recycling
- Compostable plastic articles
- Sustainable packaging





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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