

Special Issue

Advances in the Recycling and Processing of Plastic Waste

Message from the Guest Editors

More than eight billion tons of plastic waste has accumulated worldwide over the past 50 years. The majority (80%) of the waste goes directly into landfills and 3% ends up in the oceans. At the current rate, we are heading towards more plastic than fish in the ocean by 2050. Plastics are persistent in the environment and degrade slowly (over a century), releasing fragments, microplastics, and toxic chemicals into our environment. The overall goal of this Special Issue is to shed light on the area of plastic waste recycling. Topics of interest include (but are not limited to) advanced mechanical recycling, chemical recycling, biodegradable plastic material development, microplastic characterization/mitigation, characterization advancement for plastic waste, and recycling policy analysis.

Guest Editors

Prof. Dr. Michele John

Sustainable Engineering Group, Curtin University, Perth, WA 6845, Australia

Dr. Wan-Ting (Grace) Chen

Department of Plastics Engineering, UMass Lowell Francis College of Engineering, Lowell, MA 01854, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
recycling@mdpi.com

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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Michele John
Sustainable Engineering Group, Curtin University, Perth, WA 6845,
Australia

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).