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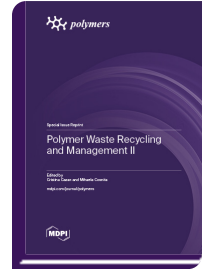


*Special Issue Reprint*

## **Polymer Waste Recycling and Management II**

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This collection of cutting-edge research articles addresses critical challenges in waste management and the circular economy, offering innovative solutions for recycling and upcycling diverse materials. The studies explore advanced methods, such as solar-assisted waste processing, electrospinning for recycled PET fibers, and chemical recycling techniques for polymers like PLA and polyurethane. Furthermore, they highlight novel applications of recycled materials, including green composites, regenerated foams, and sustainable reinforcements for geotechnical engineering.

Each article delves into the characterization of materials, mechanical testing, and process optimization, ensuring that the recycled products meet or exceed industry standards. This collection also emphasizes emerging technologies for traceability and data management in the plastics industry, proposing digital and physical marking systems to facilitate efficient recycling workflows.

These articles serve as a comprehensive resource for researchers, industry professionals, and policymakers aiming to adopt and promote sustainable practices, offering practical insights into the valorization of waste for a greener future.



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