

Special Issue Reprint

Recycling and Resource Recovery from Polymers II

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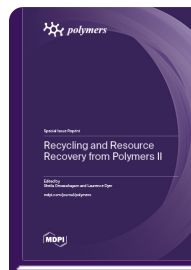
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This compendium illuminates the path to a circular economy, spotlighting innovative research across diverse domains. Key themes include the plastics economy, energy recovery, and emissions reduction. Chapters delve into monomer recovery, hydrogen energy systems, and feedstock recycling, offering a comprehensive view of sustainable material processing. Technological advancements feature prominently, covering thermal and mechanical degradation of recycled materials, upcycling of pine branches, and the thermocatalytic conversion of plastics into liquid fuels. The multidisciplinary exploration extends from fabricating recycled polycarbonate fibers for thermal signature reduction to the valorization of waste subproducts in composite materials. The compendium serves as a valuable resource for researchers, practitioners, and policymakers, providing insights into the intricate landscape of circular economy endeavors.

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