



*polymers*

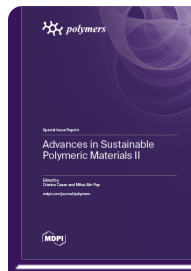


*Special Issue Reprint*

## **Advances in Sustainable Polymeric Materials II**

[www.mdpi.com/books/reprint/9444](http://www.mdpi.com/books/reprint/9444)

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ISBN 978-3-7258-1326-1 (Hardback)  
ISBN 978-3-7258-1325-4 (PDF)

This reprint, "*Advances in Sustainable Polymeric Materials II*", contains 16 studies and further cutting-edge research that illustrate how these challenges can be addressed through the use of advanced materials, sustainable polymers, and green technologies. It highlights the importance of efficient catalysts, bio-based materials, and green chemical processes and demonstrates how cellulose derivatives and other natural materials can be integrated into polymer compositions. The reprint also explores the use of electrospun membranes and reactive eutectic solvents for greener methods of wastewater treatment and material synthesis, and the potential of agri-food waste and biomaterials for fully bio-based polymer coatings and materials. It also discusses the stabilization and preservation of natural extracts and active ingredients, showcasing the importance of encapsulation and nanotechnology in preserving these substances' beneficial properties. Each chapter provides detailed insight into how natural resources can be harnessed to create high-performance products while maintaining a strong commitment to environmental protection. These innovations not only improve the performance of materials but also contribute to reducing the ecological footprint of industrial processes.



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