



Environment-Friendly Polymers: Synthesis, Processing and Applications (2nd Edition)

Guest Editor:

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Deadline for manuscript
submissions:

closed (25 February 2025)

Message from the Guest Editor

In recent years, growing environmental awareness has motivated researchers from both industry and academia to replace petroleum-derived polymers and additives with bioplastics by developing environmentally friendly thermoplastic polymers from bio-based and biodegradable raw materials. The use of petroleum-based raw materials for the synthesis of starting monomers is also a strong limit for thermoset matrices, which are often used for the production of composites. Recently, innovative feedstocks obtained from food scraps, algae biomass and industrial or municipal waste have been used for the production of bio-polymers, thus allowing the valorization of the waste. New procedures for the synthesis of precursors from natural renewable resources have also emerged which aim to decrease or remove the use of organic solvents, thus developing a truly green approach. Hence, polymers obtained from renewable resources are becoming increasingly important as highly sustainable, eco-efficient, and biodegradable products. This Special Issue aims to investigate the synthesis, processing and applications of bio-based polymers. Both original contributions and comprehensive reviews are welcome.





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Message from the Editor-in-Chief

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