

Special Issue

Environmentally Benign Sustainable Materials

Message from the Guest Editors

Current non-biobased systems generate significant land and ocean pollution; this undergirds the need for environmentally benign, sustainable materials within a new construct, i.e., the circular economy. Barrier materials obtained from different biobased resources are receiving significant attention from the research community. One of the most significant effects of the recent COVID-19 pandemic was the generation of significant amounts of waste due to an immense increase in online delivery numbers, especially in the food industry. Biobased materials such as cellulose derivatives, starch, (poly)hydroxyalkanoates, proteins, etc. can derive huge ecological benefits and solve end-of-life issues associated with petroleum-derived compounds. This Special Issue aims to capture both sides of the coins of various biobased barrier materials and their impact on the industry and society. We seek original contributions on the development of sustainable barrier materials and their impact on the environment and circularity. Topics (include but are not limited to): biobased barrier materials, various grades of packaging, composites, coatings, hygiene, and flexible electronics.

Guest Editors

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Deadline for manuscript submissions

closed (29 February 2024)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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