



## Progress in Sustainable Development and Circular Economy via Low-Carbon Polymeric Materials

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### Message from the Guest Editors

The escalating problems associated with greenhouse gases, limited reserves of petroleum, and a growing understanding of the benefits of sustainable development have stimulated society and government agencies to focus on the utilization of low-carbon materials in the emerging sphere of the circular economy. These low-carbon materials have a reduced carbon footprint and decreased embodied energy and carbon with enhanced recyclability that conserves the product's functional requirements.

The Special Issue entitled “Progress Towards the Development, Utilization, and Analysis of Low-Carbon Materials” will serve as an arena to acknowledge the recent investigations into the development of low-carbon polymeric materials where cutting-edge methods and processing are applied to bolster the material circularity concept. Potential topics include but are not limited to the following: innovative synthesis, manufacturing, and application of bio-based polymeric materials (e.g., bioplastics, biocomposites, and electrospun fibers); life cycle analysis of bio-based polymers and composites; biodegradation and low-carbon buildings and construction materials.





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