



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

Guest Editors:

Prof. Dr. Seeram Ramakrishna

Department of Mechanical Engineering, National University of Singapore, Singapore 119077, Singapore

Dr. Oisik Das

Structural and Fire Engineering Division, Department of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, 97187 Luleå, Sweden

Dr. Sunpreet Singh

Department of Mechanical Engineering, National University of Singapore, Singapore 119077, Singapore

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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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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

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Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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