

Special Issue

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

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.

Guest Editors

Prof. Dr. Seeram Ramakrishna

Dr. Oisik Das

Dr. Sunpreet Singh

Deadline for manuscript submissions

closed (25 March 2021)



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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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

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