Special Issue

Mechanics of Sustainable Polymeric Materials

Message from the Guest Editor

Sustainable polymers from renewable natural resources are environmentally friendly replacements for petroleum-derived polymers. In the 21st century, there has been a rapidly growing research interest in inventing sustainable polymeric materials to combat the detrimental effects of the traditional petroleum-derived polymers on the natural environment since the middle of the 20th century. As the foundation of the proper function of sustainable polymeric materials, mechanical properties are critical to making sustainable polymeric materials comparable to their high-performance petroleum-derived counterparts. The mechanical properties also play a role in both the pre-use processing and the post-use recycling of sustainable polymers, as controlling the energy dissipation in a mechanical process is highly relevant to the reduction of "carbon footprint".

Guest Editor

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