

Special Issue

Sustainable Development of Polymer Composites and Nanocomposites

Message from the Guest Editor

This Special Issue centers on the sustainable development of polymer composites and nanocomposites, a critical research area driving innovation across advanced material applications. Its core theme emphasizes advancing material design, performance regulation, and environmental adaptability to address global demands for eco-friendly, high-performance materials.

The scope of submissions encompasses, but is not limited to, the following:

- Synthesis and modification of biodegradable/biocompatible polymer composites, with a focus on sustainability in material lifecycle;

- Design and optimization of composites for self-powered devices;

- Development of polymer nanocomposites for intelligent sensing applications;

- Studies on material structure–composition–property relationships that enhance sustainability, such as recyclability, reduced environmental impact, and efficient resource utilization.

This Special Issue aims to consolidate cutting-edge research, fostering academic exchange to accelerate the sustainable evolution of polymer composites and nanocomposites for industrial and technological advancement.

Guest Editor

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Deadline for manuscript submissions

30 November 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/262206

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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

Prof. Dr. Steve W. Lyon

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