Special Issue

Polymer Degradability Remediation at the Nanoscale: Characterization and Pollution

Message from the Guest Editor

Pollution caused by plastics is generating enormous problems for the environment and, hence, for society. Finding ways to overcome this emerging issue requires multidisciplinary research, including strategies to degrade the existing litter and studies seeking alternatives to the creation of new required plastics. Current alternatives are promising, but they do not yet reach all of the requirements for many applications. In order to study the polymer tensile strength or analyze the damage triggered by a certain factor, nanotechnology may play an important role in exploring potential solutions and understanding the origin of some polymeric properties.

With the purpose of offering a common platform in this multidisciplinary field, this Special Issue is dedicated to recent nanotechnological advances obtained to enhance sustainability by reducing polymer pollution. Studies presenting nanoscopic characterizations of studies revealing natural alternatives to current polymers with long degradation times, procedures to degrade existing polymers, and new nanotechnological techniques focused on any of these goals are very welcome to contribute to this Special Issue.

Guest Editor

Dr. Santiago Casado

Food and Biotechnology Science and Engineering Department, Technical University of Ambato, Ambato 180207, Ecuador

Deadline for manuscript submissions

closed (26 April 2024)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/176844

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

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/journal/sustainability

MDPI

About the Journal

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. *Sustainability* publishes original research articles, review 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. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)