



an Open Access Journal by MDPI

Recent Researches in Polymer and Plastic Processing

Guest Editor:

**Dr. Joanna Izdebska-
Podsiadły**

Department of Printing
Technology, Institute of
Mechanics and Printing, Faculty
of Mechanical and Industrial
Engineering, Warsaw University
of Technology, Konwiktorska 2,
00-217 Warsaw, Poland

Deadline for manuscript
submissions:

20 December 2024

Message from the Guest Editor

With the increasing demand for plastics in various industries, it has become crucial to find innovative techniques to process them. Hence, recent research in polymer and plastic processing have focused on improving the efficiency and sustainability of these materials.

A key focus in this field is to develop bio-based materials, derived from renewable sources such as plants, to replace traditional polymers. These bio-based polymers not only reduce our dependence on fossil fuels, but also offer better biodegradability and reduced environmental impact. However, there are challenges in marking, decorating or printing on them.

This Special Issue aims to collate papers addressing any and all aspects of developing sustainable and efficient ways of polymer and plastic processing. Some potential topics include polymer processing, plastic recycling, bio-based polymers, sustainable materials, plasma modification of polymeric materials, films printing, 3D printing, injection molding, efficiency, and sustainability.



mdpi.com/si/184963

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)