

Special Issue

Polymer Blends: Processing, Morphology, and Properties

Message from the Guest Editor

This Special Issue will focus on the existing state of the art of blending as an efficient approach to overcome the present and future challenges of the polymer industry. We are moving from an oil-based economy where a “few” cheap plastic products can fulfill many different applications to a new paradigm where the circular economy and pollution taxes will increase the cost of, if not ban, products made from commodities. Hence, the opportunity for specific new compounds that are optimal for fulfilling a given application will arise, especially in the field of bio-sourced and biodegradable materials. Blending polymers is a powerful method to modify the properties of plastics, but there are still some unanswered questions regarding processing-induced morphology and properties of the blends, which are the purpose of many studies. In this sense, the goal of this Special Issue is to be a reference work, collecting the latest results in the field, so they can enlighten current and future investigations. Keywords

- biodegradable blends
- nano/micro-dispersions
- reactive blending
- surface modification

Guest Editor

Prof. Jose Gamez-Perez

Polymers and Advanced Materials Group (PIMA), Universitat Jaume I,
12071 Castellón, Spain

Deadline for manuscript submissions

closed (31 December 2020)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/29136

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

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



About the Journal

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.

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

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 - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Condensed Matter Physics)