



## Mechanical and Rheological Behaviour of Polymer-Based Systems

Guest Editors:

**Prof. Dr. Marco Morreale**

Department of Engineering and  
Architecture, Kore University of  
Enna, 94100 Enna, Italy

**Prof. Dr. Francesco Paolo La  
Mantia**

Department of Engineering,  
University of Palermo, RU INSTM,  
Viale delle Scienze, 90128  
Palermo, Italy

Deadline for manuscript  
submissions:

**closed (30 January 2020)**

### Message from the Guest Editors

Dear Colleagues,

Rheology plays a fundamental role in investigating the processability of new polymer-based systems, and rheological characterization requires more and more advanced techniques and interpretations of the results. This is not limited to thermoplastic systems but can apply also to thermoset resins and related composites. At the same time, another one being related to the mechanical properties of the obtained products. Depending on the final application, adequate mechanical properties may be required. It may be often fundamental to find an optimal balance between several mechanical properties.

This Special Issue intends to assess the state-of-the-art and the recent advances in the field of the mechanical and rheological behaviour of polymer-based systems, focusing on effects related to new formulations, the presence of fillers, etc., as well as on the optimization of characterization techniques and the interpretation of results.

It is our pleasure to invite you to submit a manuscript to this Special Issue on the Mechanical and Rheological Behaviour of Polymer-Based Systems. Full papers, communications, and reviews are all welcome.





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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)