Special Issue

Advanced Polymer Design and Manufacturing

Message from the Guest Editor

The 20th century was considered the Age of Plastic. When going from polymer design to manufacturing and even recycling, to complete the cycle we have to reinvent plastics. Academia and industry have to face this challenge by considering the ability of polymers to modify their properties according to a peculiar structure. This could be hard, but it is also an opportunity; furthermore, it is one of the keys to the success of this class of materials.

The aim of this Special Issue is to collect a number of research or review papers, which can depict the state-of-the-art on the possible correlations between polymer design, processing, structure, and the special properties that the structure induces on the plastic part.

We welcome contributions on the following topics:

- Polymer design;
- The effect of polymer processing on resulting morphology, properties, and recyclability;
- Computational modelling, from synthesis to processing, as a tool for better design.

I hope that this interesting subject will encourage you to submit a manuscript to this Special Issue.

Guest Editor

Dr. Felice De Santis

1. Borealis Polyolefine GmbH, Linz, Austria
2. Department of Industrial Engineering, University of Salerno, Fisciano, Italy

Deadline for manuscript submissions

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

mdpi.com/journal/materials

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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

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