



*materials*



an Open Access Journal by MDPI

## Advanced Polymeric Materials and Nanocomposites for Green Plastics and Biodegradable Packaging

Guest Editor:

**Dr. Valentina Siracusa**

Department of Chemical  
Sciences, Università degli Studi di  
Catania, 95125 Catania, Italy

Deadline for manuscript  
submissions:

**closed (31 May 2021)**

### Message from the Guest Editor

In recent years, there has been an increasing concern about the growing amount of plastic waste, coming from daily life. Different kinds of synthetic plastics are used for an extensive range of needs, but in order to reduce the impact of petroleum-based plastics and materials waste, considerable attention has been focused on green and biodegradable plastics. In this context, advanced polymeric materials and nanocomposites have recently gained much attention. Starting monomers and chemicals coming from natural resources and/or food processing wastes can also be considered as promising candidates for polymers and nanocomposites production. Their use in the packaging sector could be helpful to reduce the problems associated with waste management, avoiding ecological problems and environmental pollution and reducing, at the same time, the huge consumption of nonrenewable and nonbiodegradable materials. The aim of this Special Issue is to provide an overview of ongoing scientific and industrial research on this interesting topic.



[mdpi.com/si/27061](https://mdpi.com/si/27061)

# 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 - 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)