Special Issue

Polymers, Processing and Sustainability

Message from the Guest Editors

Petroleum-based polymers and manufacturing processes are associated with a number of health and environmental risks from chemical leaks and contaminants in the water and air, such as phthalates from plasticizers for softening effects; bisphenol A (BPA), which is used as a reagent in the production of polycarbonate, epoxy resins, coatings and adhesives; polybrominated diphenyl ether (PBDE), which is used as a fire retardant; solid waste buildup in nature and its persistence in the ocean, coastal zones and terrestrial environments due to plastics not being easily degradable; and so on. This Special Issue will demonstrate recent results and/or positive advances in the development of new sustainable materials, innovative technological designs and optimization methods targeted at lowering the environmental impact of polymer-based manufacturing processes while preserving product quality and material performance in light of applications in medicine, agriculture, coatings and paints, biotechnology, automotive, packaging, textiles, electronics and so on.

Guest Editors

Dr. Antonella Patti

Department of Civil Engineering and Architecture (DICAr), University of Catania, Viale Andrea Doria 6, 95125 Catania, Italy

Dr. Stefano Acierno

Department of Engineering, University of Sannio, Piazza Roma 21, 82100 Benevento, Italy

Deadline for manuscript submissions

closed (20 March 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/195623

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

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

MDPI

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)