



*materials*



an Open Access Journal by MDPI

## Fracture Mechanics Investigation of Polymeric Materials

Guest Editors:

**Prof. Dr. Gerald Pinter**

Department of Polymer Science  
and Engineering,  
Montanuniversität Leoben,  
Leoben, Austria

**Dr. Florian Arbeiter**

Materials Science and Testing of  
Polymers, Montanuniversität  
Leoben, Leoben, Austria

Deadline for manuscript  
submissions:  
**closed (20 March 2022)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue on “Fracture Mechanics Investigation of Polymeric Materials” brings together scientists working at universities, research institutes, laboratories, and various industries to discuss state-of-the-art research on fracture mechanics in polymers and polymer matrix composites. This Special Issue is a timely approach to specifically survey recent progress in the development and application of fracture mechanics testing concepts and modeling and simulation strategies to reproduce the failure behavior of components under real service conditions. Typically, the lifetime of components in structural applications is dominated by the effect of defects or notches.



[mdpi.com/si/54771](https://mdpi.com/si/54771)

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

## Contact Us

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
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)