

## Special Issue

# Damage and Failure of Polymers, Polymer-Like Materials, Adhesives and Polymer Nanocomposites

### Message from the Guest Editor

The aim of this Special Issue is to gather the latest researches in the field, especially those dealing with the theoretical, numerical and experimental study of damage and failure in polymers and polymer-like materials (biomaterials), adhesives and polymers nanocomposites, all of them being characterized by a complex, entangled, amorphous network-like microstructure. In particular, the Special Issue is devoted, but not limited, to the following aspects: Damage and failure due to static or repeated mechanical actions, delamination, void growth, thermal or chemical actions, environmental degradation, strain rate effects, etc. Of particular interest to the Special Issue will be the microscale and multiscale approaches to the above mentioned aspects; the goal is to provide an up-to-date and comprehensive overview on the problem of assessment and prediction of damage and failure and on the mitigation (repair and healing) of their effects in polymers, polymer-like materials, adhesives and polymers nanocomposites.

### Guest Editor

Prof. Dr. Roberto Brighenti  
Department of Civil & Environmental Engineering (DICEA), University of Florence, 50139 Firenze, Italy

### Deadline for manuscript submissions

closed (31 October 2021)



## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editorial Board

*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.

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### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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