



Mechanical Behavior and Degradation Processes of Advanced Materials

Guest Editors:

Dr. Seyed Saeid Rahimian Koloor

Institute for Nanomaterials, Advanced Technologies and Innovation (CXI), Technical University of Liberec (TUL), Studentska 2, 461 17 Liberec, Czech Republic

Dr. Noorfaizal Yidris

Department of Aerospace Engineering, Universiti Putra Malaysia (UPM), Serdang 43400, Malaysia

Dr. Atefeh Karimzadeharani

Leibniz Institute for Solid State and Materials Research (IFW Dresden), Helmholtzstr 20, 01069 Dresden, Germany

Deadline for manuscript submissions:
closed (30 October 2023)



Message from the Guest Editors

This Special Issue on Mechanical Behavior and Degradation Processes of Advanced Materials and Structures contains the following research topics:

- **Advanced Materials;** Ductile Materials, Metals and Alloys, Brittles and Ceramics, Polymers, Biomaterials, Biocomposites, Nanocomposites, Polymer composites, Metal matrix composites, Ceramic matrix composites, Ductile composites, Hybrid composites, Sandwich structures, Reinforced-concrete, etc.
- **Degradation Process;** Physical, Chemical, Environmental, Time-dependent;
- **Mechanical Behavior:** Linear-nonlinear deformation, Elastic, Hyperelastic, Viscoelastic, Plastic, etc.
- **Damage Mechanics:** Fatigue, Fracture, Creep, Impact, etc.
- **Characterizations:** Mechanical, Physical, Thermal, etc.
- **Computational mechanics:** Finite element method, finite differences, peridynamics, real-time simulation, etc.
- **Novel experimental methods** in both mechanical and structural analyses.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)