



materials



an Open Access Journal by MDPI

Mechanical and Microstructural Characterizations of Deformation Mechanisms at Fine Scales

Guest Editor:

Dr. Jean-Sebastien Lecomte

LEM3—Laboratoire d'Etude des
Microstructures et de Mécanique
des Matériaux, University of
Lorraine, F-57045 Metz, France

Deadline for manuscript
submissions:
closed (10 July 2022)

Message from the Guest Editor

The objective of this Special Issue is to present research around the same theme—namely, **mechanical and microstructural characterizations of deformation mechanisms at fine scales**. We are looking for those who develop fine characterization methods and/or use them to characterize materials. The importance of pooling our strengths to create a positive synergy has been further emphasized by the unprecedented global health crisis we are going through.

Keywords:

- nanoindentation
- in situ experiment
- micropillar
- microbeam
- microstructural characterization



mdpi.com/si/82399

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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)