



an Open Access Journal by MDPI

# Small Scale Deformation using Advanced Nanoindentation Techniques, Volume III

Guest Editors:

#### Dr. Ting Tsui

Department of Chemical Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON N2L 3G1, Canada

#### Prof. Dr. Alex A. Volinsky

Department of Mechanical Engineering, University of South Florida, 4202 E Fowler Ave. ENB 118, Tampa, FL 33620, USA

Deadline for manuscript submissions: closed (28 February 2022)

## **Message from the Guest Editors**

Small-scale mechanical deformations have gained a significant interest over the past few decades, driven by the advances in integrated circuits and microelectromechanical systems. One of the most powerful and versatile characterization methods is the nanoindentation technique. The capabilities of these depth-sensing instruments have been improved considerably. They can perform experiments in vacuum and at high temperatures, such as in situ SEM and TEM nanoindenters. This allows researchers to visualize mechanical deformation and dislocation motion in real time. The time-dependent behavior of soft materials has also been studied in recent research works. This Special Issue on "Small Scale Deformation using Advanced Nanoindentation Techniques" will provide a forum for researchers from the academic and industrial communities to present advances in the field of small-scale contact mechanics. Materials of interest include metals, glass, and ceramics. Manuscripts related to deformations of biomaterials and biological-related specimens are also welcome









an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Ai-Qun Liu

 Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

### Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication i n *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as 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), PubMed, PMC, Ei Compendex, dblp, and other databases.

**Journal Rank:** JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Mechanical Engineering)

# **Contact Us**

*Micromachines* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/micromachines micromachines@mdpi.com X@micromach\_mdpi