

Special Issue

Materials Characterizations Using In-Situ Techniques

Message from the Guest Editors

The development of state-of-the-art in situ characterization techniques has significantly advanced our understanding of the structure–property relationships of materials. Here, we propose a Special Issue in *Materials* focusing on recent advances in in situ microscopy techniques and their applications in materials research. Contributions in the forms of review articles and research papers are all welcome. Content covered in this Special Issue will include but is not limited to the following fields:

- In situ structural characterization using optical microscopy, electron microscopy, scanning probe microscopy, and synchrotron radiation techniques;
- In situ property measurement/testing;
- Development of in situ techniques;
- Dynamic simulations to uncover deformation mechanisms and/or fundamental physics of materials.

Guest Editors

Dr. Zibin Chen

Prof. Dr. Xiaozhou Liao

Prof. Dr. Wenge Yang

Deadline for manuscript submissions

closed (10 May 2022)



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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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About the Journal

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.

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

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