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Microstructure Characterization of Materials: In Situ TEM Investigation

Guest Editor:

Dr. Andrzej Żak
Electron Microscopy Laboratory, Faculty of Mechanical Engineering, Wrocław University of Science and Technology, Wrocław, Poland

Deadline for manuscript submissions:
closed (20 August 2023)

Message from the Guest Editor

Dear Colleagues,

One picture means more than a thousand words. Undoubtedly, this is one of the slogans that guide researchers specializing in dynamic imaging experiments. There is no doubt, however, that despite the passage of years, in situ electron microscopy remains an exceptionally demanding technique. The experiments carried out with it allow pushing the boundaries of knowledge but often require significant interference in the microscope or the use of dedicated, prototype devices. Changing the sample temperature, interaction with a magnetic or electric field, mechanical, light, or accelerated particle influence, chemical experiments in liquids and gases, electron beam-driven reactions—despite the wide possibilities, the pool of available experiments remains open and limited only by the creativity of researchers.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews in the field of in situ electron microscopy are all welcome. We are interested in both research carried out with the use of commercial systems and your prototype designs, not limited to only TEM or SEM.

Dr. Andrzej Żak
Guest Editor

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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

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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