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In Situ Characterization of Functional Materials via Electron Microscopy Techniques

Guest Editor:

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Deadline for manuscript submissions:
closed (10 March 2024)

Message from the Guest Editor

Dear Colleagues,

We invite researchers to submit their work on functional materials under different environments, including high temperatures, pressures, and electric fields. This Special Issue aims to encompass a broad range of functional materials, such as ferroelectrics, piezoelectrics, catalysts, and energy storage materials, among others.

Contributions should focus on in situ electron microscopy techniques, such as TEM and SEM. The Issue aims to provide a valuable discussion on materials with high temporal and spatial resolution to capture the dynamic processes of functional materials. Moreover, we particularly welcome works that address the challenges associated with studying materials in extreme environments as they offer valuable insights for future research endeavors.

In the practice of researchers sharing their findings, they contribute to the advancement of our understanding of functional materials and the development of in situ characterization techniques.

Keywords:

- in situ spectroscopy and microscopy
- extreme environments
- temporal and spatial resolution

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Message from the Editor-in-Chief

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