Special Issue

Novel Phase-Change, Resistive, Ferroelectric Materials and Their Applications

Message from the Guest Editor

We are pleased to invite you to contribute original research articles as well as review articles to this Special Issue. Due to the increasingly significant asymmetrical development of data processing speeds between CPUs and memories, the "memory wall" problem severely restricts the overall speed improvement in computer systems. This Special Issue aims to offer a collection of articles describing state-of-the-art advances in the fields of novel information functional materials such as phase-change materials, resistive materials, and ferroelectric materials and their applications. This Special Issue will highlight the fundamental understanding of material properties, structures, and engineering methods to overcome the current challenges for next-generation memories. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Phase-change, resistive, and ferroelectric materials;
- Nanomaterial preparation;
- Heterostructure and interface engineering;
- Correlation between structure and properties;
- Applications of nanomaterials and interfaces in different fields.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2024)

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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