

Special Issue

Advanced Inorganic Semiconductor Materials, 2nd Edition

Message from the Guest Editors

The information technology revolution has been based decisively on the development and application of inorganic semiconductors. Conventional devices utilize bulk semiconductors in which charge carriers are free to move in all three spatial directions. For example, silicon forms the basis of most electronic devices, whilst compound semiconductors such as gallium arsenide (GaAs) are used for many optoelectronic applications.

This Special Issue aims to highlight the most current research and ideas in inorganic semiconductors, especially semiconductors based on 2D materials. In this Special Issue, original research articles and reviews are welcome. Research areas include, but are not limited to, the experimental fabrication and characterization, as well as the electronic, electrical, magnetic, optoelectronic and thermal properties of inorganic semiconductors.

As will be seen in this Special Issue, inorganic semiconductors exhibit a wide range of new and unusual properties, which can be employed to fabricate improved and novel electronic and electro-optical devices.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2025)



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About the Journal

Message from the Editor-in-Chief

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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