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Advanced Inorganic Semiconductor Materials

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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 the vast majority of electronic devices, whilst compound semiconductors such as gallium arsenide (GaAs) are used for many optoelectronic applications. Recently, with the global boom in graphene research, more and more atomically thin two-dimensional (2D) inorganic materials have gained significant interest.

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.

We look forward to receiving your contributions.

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Guest Editors

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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.

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