

Special Issue

2D Materials for Optoelectronic Devices

Message from the Guest Editor

The 2D material family is one of the rising stars in optoelectronics. 2D materials present unique electrical and optical properties such as the atomically clean interface, large electrostatic modulation, strong light-matter interaction and high tunability of bandstructures, making them highly promising for applications in next-generation optoelectronics devices. Furthermore, van der Waals heterostructures can be facily built (lattice matching is not required) with various kinds of 2D materials (semiconductors, metals and insulators), providing new playground for novel multifunctional optoelectronic device implements that can be hardly achieved by bulk materials. This Special Issue aims to cover the recent advances in optoelectronic devices based on 2D materials, including but not limited to topics of photodetectors, photovoltaic devices, light emitting devices, electro-optic modulators, optoelectronic synaptic devices, 2D/3D hybrid devices and flexible optoelectronics.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2023)



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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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