

Special Issue

Chemistry of 2D Materials

Message from the Guest Editors

Since the ground-breaking experiment on graphene in 2004, 2D materials have attracted enormous attention among researchers from the chemistry, physics, materials science and engineering, medicine and industrial sectors. Two-dimensional materials possess outstanding chemical and physical properties and hold many potential applications in electronic and optoelectronic devices, energy conversion and storage, biological engineering, nanocomposites and membranes. The intensive research has stimulated the generation of various types of 2D semi-conductors, semi-metals, metals and insulators, such as phosphorene, boron nitride, transition metal dichalcogenides, transition metal oxides/hydroxides, transition metal carbides and carbonitrides, and 2D polymers, etc. Chemical approaches have been proven to be a promising route towards the large-scale production of 2D materials and their derivatives. This Special Issue aims to focus on the various chemical strategies on 2D materials; the topics include but are not limited to:

- Preparation, synthesis and chemical modification of 2D materials
- Characterization, properties and applications of 2D materials and functionalized 2D materials

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Chemistry is a broad science and in *Chemistry* we hope to showcase the excellence of this fundamental discipline. Open Access publishing allows scientists to publish their research in a way that reaches the widest possible audience. In *Chemistry* we aspire to build a genuinely transdisciplinary culture in which communication of results between scientists active in different areas and between scientists and the broader public highlights the benefits that chemistry can bring to society. We encourage papers on all aspects of chemistry ranging from astrochemistry to zoochemistry, with everything in between. We also very strongly welcome inter- and multidisciplinary papers which expand the subject beyond its present horizons. We also welcome themed issues collecting reviews and state-of-the-art papers in topical areas of chemical science.

Editor-in-Chief

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