Special Issue

Synthesis, Properties and Applications of MXenes-Based Materials

Message from the Guest Editors

MXenes, a big family of 2D transition metal carbides, carbonitrides, and nitrides, are rising increasing attention in the fields of energy storage, catalysis, sensors, electronics, environment science, optics, etc. However, physical and chemical properties are strongly influenced by features of MXene itself and synthetic approaches. Therefore, the fundamental investigations on the synthesis and properties of MXene-based materials are necessary and urgent for boosting the advances of practical applications. In this Special Issue, we will focus on green and innovative synthetic methods, synthesis and theoretical model prediction of novel MXenes, functionalization design, regulation of physical and chemical properties, advanced characterization, and applications of MXenes-based materials. We would like to invite original research articles and comprehensive reviews providing innovative research work and deep insights into MXene-based materials.

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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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