



Synthesis, Properties and Applications of MXenes-Based Materials

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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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