

Special Issue

Novel Two-Dimensional MXenes and Their Applications

Message from the Guest Editors

Dear colleagues, In recent years, two-dimensional transition metal carbides, nitrides, or carbonitrides, widely known as MXenes, have drawn the attention of the scientific community due to their diverse compositions and structures and fascinating properties, such as excellent electrical conductivity, high water dispersibility, and suitability for altering their surface chemistry. Such appealing properties make MXenes suitable for use in a myriad of applications, including electronics, optoelectronics, energy storage, catalysis, medicine, and chemical and biomolecular detection, among others. Furthermore, MXenes have been widely explored for novel or improved functional properties, through the production of composites and heterostructures with other nanomaterials. This Special Issue will cover all topics related to recent advances in the synthesis/fabrication of MXenes and their nanocomposites/heterostructures, elucidation of their properties, and their potential applications. Full papers, communications, and reviews on experimental, theoretical, or computational research covering aspects of the abovementioned topics are highly welcome.

Guest Editors

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Deadline for manuscript submissions

closed (10 May 2022)



Micromachines

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Impact Factor 3.0
CiteScore 6.0
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Message from the Editor-in-Chief

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