

## Special Issue

# MXene/Polymer Nanocomposites: Preparation, Properties, and Applications

### Message from the Guest Editor

MXenes are emerging 2D materials that find wide applications in energy, biomedical, sensing, environmental remediation, and many more fields. Materials based on MXenes (2D transition metal carbides and/or carbonitrides) show exceptional structural properties, such as active sites, chemical stability, large interlayer spacing, high surface area, and affinity to bind with other materials. On the other hand, polymeric materials show high mechanical strength, thermal stability, and processability. Mxene-based materials show some drawbacks which could be taken care of by making composites with polymeric materials. The goal of this Special Issue is to cover recent developments in Mxene-based polymeric composites for many advanced applications. High-quality original research and review articles on topics such as energy generation and storage, sensors, biomedical, environmental remediation, etc. are welcome to this Special Issue.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2023)



## Materials

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

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