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, biomedicals, environmental remediation, etc. are welcome to this Special Issue.

Guest Editor

Dr. Ram K. Gupta
Department of Chemistry, Kansas Polymer Research Center, Pittsburg State University, Pittsburg, KS 66762, USA

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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Message from the Editorial Board

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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1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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