Special Issue

Development and Application of 2D Metal Carbides and Nitrides (MXenes)

Message from the Guest Editors

This Special Issue publishes original research articles, review articles, and short communications on the application possibilities and the latest developments in 2D metal carbides and nitrides (MXenes). MXenes, owing to their chemical composition, structure, and unique properties, offer great application possibilities. This Special Issue aims to reflect the application possibilities and indicate new trends in the development of these materials. Articles focusing on methods of obtaining a surface modification, research on catalytic properties, biotechnological applications, and energy storage are invited. Articles describing the production of metal, ceramic, and polymer composites, in which MXene has been used as the reinforcing phase, are also welcome, as well as papers on experimental research and modeling of the structure and mechanical properties, the thermal stability of MXene, and composites with their addition.

Guest Editors

Dr. Jarosław Woźniak

Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland

Dr. Mateusz Petrus

Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland

Deadline for manuscript submissions

closed (20 August 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/93579

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)