

Special Issue

Advances in Application of Two-Dimensional Materials and Devices

Message from the Guest Editors

Two-dimensional (2D) materials, such as graphene, MXenes, transition metal dichalcogenides (TMDs), and hexagonal boron nitride, have emerged as pivotal platforms in advancing materials science and electronic device engineering. Their extraordinary characteristics, including atomic-scale thickness, high surface-to-volume ratio, and tunable electrical and optical properties, render them highly suitable for a broad spectrum of applications. Such properties hold significant promise for enabling future innovations in low-power memory technologies, reconfigurable electronics, and next-generation optoelectronic systems, potentially exceeding the limitations of conventional semiconductors. This Special Issue aims to showcase recent progress in synthesizing, characterizing, and implementing 2D materials in functional devices. Areas of interest include, but are not limited to, nanoelectronics, optoelectronics, neuromorphic computing, sensors, and energy-related applications. Particular emphasis is placed on research that bridges fundamental materials science with scalable and practical device integration.

Guest Editors

Dr. Mehdi Sattari-Esfahlan

Institute for Microelectronics, Technische Universität Wien, Vienna, Austria

Dr. Yoanlys Hernandez-Barrios

Institute for Microelectronics, Technische Universität Wien, Vienna, Austria

Deadline for manuscript submissions

1 July 2026



Eng

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.2



mdpi.com/si/240736

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

mdpi.com/journal/

[eng](https://mdpi.com/journal/eng)





Eng

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 3.2



[mdpi.com/journal/
eng](https://mdpi.com/journal/eng)



About the Journal

Message from the Editor-in-Chief

Eng (ISSN 2673-4117) is an international, peer-reviewed open access journal which publishes original papers, critical reviews, rapid communications, technical notes, and discussions on all areas of engineering.

Editor-in-Chief

Prof. Dr. Antonio Gil Bravo

INAMAT²-Departamento de Ciencias, Edificio de los Acebos,
Universidad Pública de Navarra, Campus de Arrosadía, 31006
Pamplona, Spain

Author Benefits

Open Access:

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

High Visibility:

indexed within ESCI (Web of Science), Scopus, Ei Compendex, EBSCO and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q2 (Engineering (miscellaneous))