Special Issue

Current Updates on Graphene's Electronic Properties

Message from the Guest Editor

In this Special Issue, we welcome original research articles, reviews, and mini-reviews on (but not limited to) the following areas:

- New Experimental and Theoretical Insights into Graphene's Electronic Behavior: Studies addressing the unique electronic properties of graphene under varying environmental or operational conditions;
- Graphene-Based Heterostructures and Composites: Exploration of electronic properties in hybrid materials, including 2D heterostructures that involve graphene layers;
- Applications in Nanoelectronics and Flexible Electronics: Innovative applications of graphene in transistors, sensors, and flexible electronic devices;
- Graphene for Energy Conversion and Storage Devices: Insights into the role of graphene's electronic properties in enhancing the performance of batteries, supercapacitors, and solar cells.

We hope this Special Issue will provide a comprehensive update on cutting-edge research, thereby guiding future work and supporting the development of graphene-based technologies.

Guest Editor

Dr. Sung Won Hwang

Department of Nano Science and Mechatronics Engineering, Konkuk University, 268 Chung Won Dae Ro, Chungju-City 380-701, Republic of Korea

Deadline for manuscript submissions

20 March 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/222894

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)