





an Open Access Journal by MDPI

Advances in Two-Dimensional Materials: From Synthesis to Applications

Guest Editor:

Dr. Liang Xu

Associate Professor, School of Energy and Mechanical Engineering, Jiangxi University of Science and Technology, Nanchang 330013, China

Deadline for manuscript submissions:

28 November 2024

Message from the Guest Editor

Two-dimensional (2D) materials have gained tremendous attention due to their unique properties and potential applications in various fields. This Special Issue is to highlight recent breakthroughs in the field of 2D materials, spanning the entire spectrum from synthesis to applications. We aim to provide a comprehensive overview of the cutting-edge research, with a focus on the latest advances and emerging trends.

In particular, the topic of interest includes but is not limited to:

- The synthesis and characterization of 2D materials;
- The physical and chemical properties of 2D materials;
- Structure-property relationships in 2D materials;
- Modification of 2D materials via heterojunctions;
- Modification of 2D materials via doping;
- Transport phenomena and electronic properties of 2D materials;
- Defect engineering, strain engineering, and surface functionalization;
- The applications in energy storage and conversion, electronics, sensing, and biomedical fields.

We look forward to receiving your contributions.







IMPACT FACTOR 3.4



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. Coatings is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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

Journal Rank: JCR - Q2 (*Materials Science, Coatings & Films*) / CiteScore - Q2 (*Surfaces and Interfaces*)

Contact Us