coatings

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

CITESCORE 5.4

2D Materials-Based Thin Films and Coatings

Guest Editor:

Dr. Cristian Vacacela Gomez
Universidad Ecotec, Km. 13.5 Samborondón, Samborondón EC092302, Ecuador

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editor

Dear Colleagues,

The related 2D materials that are currently considered as promising thin films and coatings include the following: graphene oxide, molybdenum disulfide, boron nitride, mica, zirconium phosphate, layered hydrotalcite, the MXene family, carbon nitride, amongst others.

This Special Issue is expected to serve as a forum for papers in the following concepts:

- Recent developments in multi-functional graphene-based coatings;
- Theoretical and experimental research, and new ideas in protective and preventive coating mechanisms using beyond-graphene materials;
- Coatings or thin films produced by different processes as additive manufacturing processes, thermal spray, laser and plasma processing, CVD, plating, etc.;
- Coatings with exposure to high temperatures, high stress, and other extreme environment applications;
- Understanding the degradation mechanisms of coatings through friction, wear or other dynamic loading conditions, and corrosion;
- Modeling and simulation to predict coating properties, performance, durability, and reliability.

Prof. Dr. Cristian Vacacela Gomez
Guest Editor

coatings

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

CITESCORE 5.4

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 asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research 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), Ei Compendex, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
𝕏@Coatings_MDPI