Special Issue

Application of Graphene and Two-Dimensional Materials in Thin Films

Message from the Guest Editor

Graphene and two-dimensional (2D) materials are expected to revolutionize next-generation technologies. Their superior physical and chemical properties provide them with a range of potential applications in the fields of optoelectronics, spintronics, electrochemistry, energy storage conversion, catalysis, supercapacitors, and solar cells. Topics of interest for this Special Issue include (but are not limited to):

- graphene and 2D materials in thin films: synthesis, properties, and applications;
- graphene and 2D materials in thin films for solar cells, energy harvesting, and energy conversion;
- graphene and 2D materials in thin films for biomedicine, sensing, and diagnostics;
- novel 2D-based Van der Waals heterostructures;
- graphene and 2D materials as flexible thin films;
- graphene and 2D materials: new concepts in optoelectronics and spintronics.

Guest Editor

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Deadline for manuscript submissions

closed (10 September 2024)

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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.

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