

Special Issue

Advanced Two-Dimensional Materials: Graphene

Message from the Guest Editors

Research on graphene has substantially evolved over the past 18 years. Since its isolation in 2004, graphene has attracted research attention in the condensed matter physics and materials science fields due to its extraordinary physicochemical properties. There are numerous applications wherein graphene and its derivatives continue to be investigated, such as semiconductor electronics, batteries, water desalination, mechanical composites, coatings, etc. In this Special Issue, we invite researchers from across the world to submit their original scientific findings that help to advance our fundamental understanding of graphene and its derivatives for the engineering of surfaces and interfaces, as well as thick and thin films, so as to harness these fascinating materials in future technologies.

- Novel techniques for scalable synthesis of graphene and graphene derivatives
- Overcoming materials science challenges toward the integration of graphene in film and/or coating commercial technologies;
- Fundamental investigations into the structure-property relationships of graphene and its derivatives are guided by experiments and/or simulations.

Guest Editors

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Deadline for manuscript submissions

closed (5 May 2023)



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About the Journal

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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