

Special Issue

Advances in Growth, Coating, and Integration of 2D Materials

Message from the Guest Editors

This Special Issue aims to collect significant contributions on advances about the following topics:

- *Growth, coatings*, and the integration of 2D materials on appropriate substrates by bottom-up approaches.
- Spin-coating with 2D materials produced by top-down methods.
- Optimization of the transferring methods by polymer-assisted *coating* with 2D materials for integration on alternative substrates.
- Investigation of the *surface properties* of coated/deposited 2D materials on the corresponding substrate.
- The understanding and development of advanced solutions to increase the yield of the *adsorption* and *adhesion* of 2D material precursors on the surface.
- Deeper insight into the 2D material/substrate *interface*.
- Understanding the effects induced on the grown/coated 2D materials after *high-temperature exposure*, which can involve stress and degradation.
- Advanced multiscale *characterization methods* to probe the uniformity, crystalline quality, and electrical/optical properties of 2D layers grown.
- High-impact applications of 2D materials in fields.

Guest Editors

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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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