

Recent Advances in Polymer/2D Material Nanocomposite Films and Coatings

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Message from the Guest Editors

Dear Colleagues,

This Special Issue will report the latest research and outcomes in epoxy/2D material nanocomposite films and coatings. Original research papers, communications, and reviews are welcome. It will include but not be limited to the following research areas:

- Research on epoxy/2D material composite films;
- Mathematical and computer models, and simulation results to underpin the structure–property relations of epoxy/2D material nanocomposites under different scenarios;
- Experimental results of epoxy/2D material films towards potential applications, including energy storage and solar energy devices, thermal management and flexible electric conductors, and epoxy composite coatings for flame retarding and antifouling applications, to name a few;
- Smart epoxy/2D material films as sensors;
- Functionalization, hybridization, and synergistic effect between 2D materials for high performance epoxy/2D material composite films;
- The latest research on synthesis routes and testing techniques to achieve a scalable and cost-effective production method to transfer technology from lab scale to industry level.



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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.

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