

Special Issue

2D Material-Based Coatings: Properties and Applications

Message from the Guest Editors

This Special Issue aims to explore the integration of 2D materials into coatings that leverage their unique attributes for use in areas such as flexible electronics, optoelectronics, chemical separations, and energy harvesting. We invite submissions of experimental and computational studies that advance our understanding of structure–property–performance relationships in 2D material-based coatings. Topics of interest include synthesis, functionalization, advanced characterization, performance evaluation, and modeling of coatings incorporating 2D materials. Particular emphasis will be placed on application-driven research highlighting their use in barrier films, optoelectronic interfaces, separation membranes, and biosensors.

Guest Editors

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Deadline for manuscript submissions

25 June 2026



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/254216

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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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