

Special Issue

Coatings and Materials: Recent Trends in Experimental, Numerical, and Theoretical Approaches

Message from the Guest Editor

By synergizing experimentation, simulation, and theory, researchers can address global challenges in durability, efficiency, and environmental impact, paving the way for next-generation coatings and materials. To address this, we welcome new methods, results, and frameworks to this Special Issue, with the aim of the mutual advancement of the field as a whole. The topics of interest for publication include, but are not limited to, the following areas:

- Advanced experimental techniques;
- Computational and AI-driven approaches;
- Theoretical insights and predictive models;
- Sustainability and eco-friendly solutions;
- ODEs and PDEs;
- Mathematical physics;
- Non-linear dynamics;
- Computational fluid dynamics;
- Thermal systems using hybrid nanofluids;
- Thermal convection and their applications in engineering;
- Applications in physics and related fields.

Guest Editor

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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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