

Special Issue

Materials and Technology Development for High-Quality and Sustainable Paints and Coatings: Limits and Trends

Message from the Guest Editors

This Special Issue aims to shed light on innovative advances in coating materials and strategies, with an emphasis on environmentally friendly solutions and the development of smart, multifunctional coatings based on new materials, approaches, and possibly digitalization. This Special Issue features studies on new binders, pigments, and additives, as well as smart corrosion-resistant and architectural coatings. We encourage submissions that utilize digital tools and life cycle analysis, as these elements are critical to increasing the relevance of research and applications of new coating materials. **Topics**

- Development of paints for smart and functional coatings, coatings for metal, wood, construction, and corrosion protection for a sustainable future.
- Materials for coating formulations, functional materials, pigments, fillers, and additives.
- Advanced coating and applications technologies and their characterization, development in processing, production, and application techniques.
- Digitalization in coatings and artificial intelligence in coating technologies.

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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