

Special Issue

Trends in Coatings and Surface Technology, 3rd Edition

Message from the Guest Editor

Surface modification provides solutions to practical issues pertinent to tackling significant social difficulties. To name several of the most popular uses, coatings are crucial for implementing biocompatible technologies, creating systems for sustainable energy generation, and cleaning up pollutants. They also help materials resist damage and endure in harsh environments. There is an ongoing global research effort in both academia and industry to find novel coatings or coating structures for an ever-growing range of problems. This Special Issue of *Coatings* will include full papers, review articles, and communications from some of the most renowned researchers in the field with the aim of spotlighting some of the most fascinating challenges in coatings science and technology. Potential topics include, but are not limited to, the following:

- Antimicrobial coatings;
- CO₂ capture technologies;
- Battery development;
- Sensor development;
- Protective coatings;
- Functional coatings;
- Hard coatings;
- Coating methods and technologies;
- Super-hydrophobic and self-cleaning coatings;
- Any other aspects of the deposition/characterization of coatings and thin films.

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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