

Special Issue

Surface Coating/Surface-Responsive Agents for Energy, Environmental, and Biomedical Application

Message from the Guest Editor

Surface coating with active and responsive agents has been extensively investigated in the field of energy, environmental, and biomedical applications. Increasing durability of materials, thereby improving the material's efficacy for extended time, is an example of the typical purposes of surface coatings. Beyond these implications, new waves on surface coating technologies are not only to empower the materials by combining multifunctionalities but also to create innovative characters allowing for the unprecedented applications. For instance, biologically functional coating by DNA, peptide, or protein has enabled us to utilize polymeric and metallic materials for tissue engineering and regenerative medicine.

The topics of this special issue include but are not limited to:

- Responsive coating agents and their coatings;
- Novel materials for surface coatings;
- Facile coating method for functional surface;
- Surface coatings for improved energy efficiency;
- Biomimetic coatings for biological applications;
- Simulation and modeling for advanced coatings.

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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