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Surface Modification of Nanostructured Materials

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you to submit your research work to our Special Issue on **"Surface Modification of Nanostructured Materials".** Nanostructured materials, compared to their bulk counterparts, exhibit novel physical, chemical, and biological properties mainly due to quantum confinement effects and enhanced surface to volume ratios at the nanometer scale. Owing to the significant surface effects in nanostructured materials' properties, surface modification can improve, tune, and realize desired characteristic properties/functionalities of nanostructured materials. The surface modification can be done in a well-controlled manner to produce nanoscale functional features through various methods and techniques. This approach may be used in a wide range of advanced technological applications.

The topics of interest include but are not limited to:

1. Fabrication/synthesis;
2. Surface modifications;
3. Theoretical calculations/simulation/prediction
4. Nanostructured materials (3D, 2D or 1D);
5. Bottom–up or top–down methods

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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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