

# Special Issue

## Advanced Surface Modification, Properties, Performance and Analysis Technology

### Message from the Guest Editors

In recent decades, the growing demand for high performance, long lifetime, reliability of metallic parts, high energy efficiency, and low environmental impact has fueled the growth of surface modification technologies. It is our pleasure to invite you to submit your papers to the current Special Issue. Surface modification of metallic materials is achieved via friction stir processing, laser melting processing, and chemical treatments, while compositing the surface with nano-reinforcements aims to improve its characterizations. Surface coating technologies are considered to be a part of advanced surface modification; thus, articles on coatings are also welcome. Papers on microstructure analysis, hardness, tribology, and corrosion investigation of the modified surface are invited. The main goal of this issue is to highlight the visible approaches of surface modification for improving wear and corrosion resistance. Simultaneously, in addition to wear and corrosion investigations, the microstructure of the modified surface or surface composites is of particular importance.

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### Guest Editors

Dr. Essam B. Moustafa

Dr. Alexey N. Solonin

Dr. Ahmed Omar Mosleh

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### Deadline for manuscript submissions

closed (31 December 2023)



## Coatings

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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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### Editors-in-Chief

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