

Deposition and Applications of Protective Films and Coatings

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Coatings remain one of the most effective ways to protect surfaces from external influences. However, the development of new types of technology and equipment poses new challenges for technologists, experimenters, and theorists.

This Special Issue of the journal will bring together articles on relevant topics, including:

-Technologies for applying highly hard wear-resistant coatings based on hard alloys, ceramics, and other materials to protect against abrasive wear.

-Research and deposition of thin coatings for metalworking tools.

-Research and development of anti-friction, self-lubricating coatings for extreme conditions.

-Development and research of metal-polymer coatings based on PEEK, PTFE, etc.

-Coatings for the oil and gas industry to protect equipment from wear and corrosion.

-Technology of atomic-layer spraying. Research on coating properties and development of spraying technologies.

-Research in the field of contact interaction calculations, taking into account the properties of boundary layers.

-Research on DLC coatings for various applications.

-Development of coatings to protect equipment from



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Special Issue

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that

focuses on the dissemination of applications in the field of surface science and engineering. *Coatings* publishes original research articles (short reports, cutting-edge results and review papers on the hottest topics).

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