

Special Issue

New Hard and Superhard Coatings

Message from the Guest Editor

Surface coating is a key technology for improving the durability and performance of materials. It reduces operating costs, energy consumption, and environmental degradation, and leads to the development of new products. In addition to the bulk properties of the substrates, coated materials can be enhanced to have a range of specific surface properties, such as a low friction coefficient, high resistance to wear, corrosion, and oxidation, high thermal conductivity, and excellent biocompatibility.

With the development of engineering and science in the micro/nano scale, the precise control of the properties of surface coating and its interface with the substrate is becoming increasingly critical in both fundamental scientific researches and applied engineering applications. Vast scientific and technological progress has been achieved on this topic. This progress has been supported by the industrial development of novel characterization and deposition tools. The aim of this Special Issue is to present the latest experimental and theoretical developments in the field, through original research papers and review articles from leading groups around the world.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2021)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/42732

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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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