

Coatings in Industry

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Message from the Guest Editors

Coatings play an extremely important role in the durability of machine parts. More and more often individual parts or even entire mechanisms are coated with different materials, or the surface layer is changed. This trend is noticeable in all industries, including in the automotive industry or in technological machines and various types of machine tools. For this reason, numerous studies are carried out related to coatings as well as their production, application, and features.

The scope of this Special Issue will serve as a forum for papers on the following concepts:

mechanisms of protection of machine parts and vehicles against corrosion;

ways of changing the tribological features of machine parts;

innovative methods of applying coatings or changing the characteristics of the surface layer of the material;

theoretical research on the characteristics of coatings used in industrial industries;

methods and purposes of coating removal;

reconstruction and repair of protective coatings;

the impact of the production and operation of coatings used in machines and devices;

laboratory and simulation tests of the influence of lubricants the functioning of the coatings.

Special Issue

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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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