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# **Surface Performance and Wear Mechanisms of Coatings**

Guest Editor:

### Dr. Alexey Vereschaka

Institute of Design and Technology Informatics (IKTI) RAN, 127055 Moscow, Russia

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### **Message from the Guest Editor**

The main objectives of the Special Issue are to study the influence of the deposition process on the properties of the coating surface (in particular, roughness, type of cluster structure, residual stresses, etc.). The important deposition parameters that have an influence on the properties of the coating surface include arc current, substrate bias voltage, gas pressure, and turntable rotation frequency. Also of interest is the influence of the condition of the coating surface on its functional properties (for example, on the tool life of coated metal-cutting tools, oxidation and erosion of protective coatings, optical properties, etc.).

Another important area is the study of the wear pattern and destruction of coatings under various operating conditions.

Also of interest are investigations into the influence of the operating conditions for coated products on the wear pattern and destruction of coatings.

## Keywords

- coating surface
- crack formation
- wear
- diffusion
- oxidation













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### **Editor-in-Chief**

#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

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