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Surface Performance and Wear Mechanisms of Coatings

Guest Editor:

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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.

Specialsue

Keywords

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







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Message from the Editor-in-Chief

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