Special Issue

Surface Performance and Wear Mechanisms of Coatings

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 metalcutting 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

Guest Editor

Dr. Alexey Vereschaka

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

Deadline for manuscript submissions

closed (31 October 2021)



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Impact Factor 3.2
CiteScore 6.4
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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/ materials





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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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