

Special Issue

Recent Advances in Surface Engineering and Coating Technologies in Manufacturing Processes

Message from the Guest Editors

The related topics are as follows:

- Nanofluids and innovative lubricants;
- Bio-based lubricants and additives;
- Tribological performance of advanced lubrication systems;
- Lubricant formulation and characterization;
- Green lubrication technologies;
- Thin films and nanocoatings for wear and corrosion protection;
- Self-lubricating coatings and solid lubricants;
- Surface texturing and micro/nano patterning;
- Surface modification techniques (plasma treatment, laser surface engineering);
- Surface characterization and analysis techniques;
- Creation of new functional surfaces;
- Tribochemistry and tribofilms;
- Surface fatigue and tribocorrosion;
- Tribological aspects of adhesive bonding and fastening;
- Joining techniques for advanced materials (composites, ceramics);
- Surface quality and post-processing of additive-manufactured components;
- Cutting tool materials and coatings for improved tribological performance;
- Surface integrity and tribological aspects of machining processes.

Guest Editors

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Prof. Dr. Samuel Sanchez Caballero

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Editor-in-Chief

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