Special Issue

Future Trends and Perspectives of Surface, Mechanical and Tribological Properties of Steel Coatings

Message from the Guest Editors

Protective coatings of steels are widely used in various industries in order to provide an extra layer of protection from mechanical and environmental conditions. Coatings can also be used in the repair and restoration of worn components. Different applications of coatings can greatly improve the performance and extend the working life of treated parts and components. In various industries, steel coatings are used in order to increase wear resistance, minimize friction, protect surfaces from environment and corrosion, repairing and restoring worn components, etc. In particular, the topic of interest includes but is not limited to:

- New coatings for industrial use;
- Coating performance in an industrial environment;
- Quality control and wear monitoring of coated components;
- Use of coatings in severe contact conditions;
- Influence of coatings on wear resistance;
- Influence on corrosion resistance;
- Influence of substrate properties on load bearing capacity;
- Properties of repaired and restored worn components.

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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.

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