



Surface Treatment for Alloys

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Message from the Guest Editors

Dear Colleagues,

Recent theoretical and experimental developments in heat and surface treatments of alloys are among the most highly-exploited research systems in the field of science and engineering. Increasing demands for durability, reliability, wear resistance, and corrosion resistance by current applications ranging from aerospace, medical, automotive to chemical industries cause the necessity of modifying already existing technologies as well as the development of new ones in the field of surface, heat, and thermochemical treatment of alloys. Driven by the current state of knowledge, the need to maintain structural material integrity and reliability assets under hard working conditions requires a ceaseless effort in experimental, theoretical, and modeling areas. The topics of interest include but are not limited to:

Protective coatings against wear;

Thermochemical treatments of alloys;

Mechanical surface treatments;

Proces control and computer-aided process design,
parameter control, characterization of surface-treated
coatings and layers;

Modeling layers on all levels.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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