

Special Issue

Surfaces of Metals and Alloys – Phenomena, Processes and Their Characterization

Message from the Guest Editors

It is my pleasure to invite you to submit a manuscript to the forthcoming Special Issue: “Surfaces of Metals and Alloys – Phenomena, Processes, and their Characterization”. For decades, the study of metal and alloy surfaces was of interest due to basic as well as practical/commercial reasons. Basic physical and chemical aspects, like strain and stress, reconstruction, segregation, diffusion, chemisorption and physisorption, electronic properties, and thermodynamics, as well as practical/commercial aspects, such as modification and catalysis, were characterized and studied by various experimental simulations and modeling. Some of the experimental methods are sensitive only to the outermost surface (ISS and DRS, for example) and some are also sensitive to the subsurface, so combinations of methods enable a distinction between surface and subsurface processes. This Special Issue aims to present the latest developments in this research area, including all the topics mentioned above, as well as other and new ones.

Guest Editors

Dr. Noah Shamir
Dr. Shimon Zalkind
Dr. Shai Cohen

Deadline for manuscript submissions

closed (20 May 2023)



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Message from the Editorial Board

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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