Special Issue

Advances in Crystallization Kinetics, Structure and Properties of Engineering Materials, Surface-Modified Non-ferrous Alloys

Message from the Guest Editors

The influence of alloying elements on the microstructure and properties of non-ferrous alloys is obvious. The aim of the research is usually to optimize the addition of the alloying elements with regard to the stability of the structure and properties under working conditions. Modification of the chemical composition enables strengthening as a result of solution and precipitation processes, as well as dispersion phases introduced into the melt. Durability and working stability are priorities and result in the search for new materials with stable and better mechanical, electrical, and thermal properties in corrosive conditions. The main group of modified materials is non-ferrous alloys. In this Special Edition, we want to present how important is the material itself. How does the modification improve the properties and help to create new functional materials? How does the modification of surface layers with technological methods change them, allowing them to be used in places where they have not been used so far? How does the modification of the chemical composition affect the kinetics of crystallization? We invite you to publish those researches in our Special Issue.

Guest Editors

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Deadline for manuscript submissions

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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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