

## Special Issue

# Advances in Alloys - Microstructure, Manufacturing and Analysis

### Message from the Guest Editors

Metallic materials process chain begins with extractive metallurgy processes. The materials obtained from ores are used as raw materials for the alloy melting of a given chemical composition. These alloys are then, after possible ladle metallurgy processes, cast into ingots intended for metal forming processes or into castings not subjected to further plastic deformation. Each of these manufacturing steps can affect the microstructure, properties and quality of the finished products. The purpose of this Special Issue is to present the results obtained from studying the effects of different chain links on the microstructure and functional properties of alloys. The purpose of the publications that will be collected in it is not only to present advances in alloy manufacturing and research in the development of their technologies. We also want to present the impact of metallurgical and foundry technologies on microstructure and performance properties. We welcome articles on advances in the development of technologies for manufacturing cast and metal formed products from steel, cast iron, special alloys, and nonferrous metals or cast composite materials.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 February 2023)



## Materials

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## About the Journal

### 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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