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Ni Alloys as Advanced Multifunctional Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editor

Dear Colleagues,

An extensive variety of nickel based alloys exists which are widely used in aerospace engineering, medical appliances, chemical and petrochemical industries, nuclear power system and steam turbine power plants.

Moreover, novel applications and the developments in the field of nanomaterials for the next generation of miniaturized devices make the scientific research on this topic very attractive.

A wide range of Ni alloys either as bulk materials or as coatings or nano/powders offer various structural or functional characteristics including improved mechanical properties, chemical and corrosion resistance, biocompatibility. They can act as (electro) catalytic materials or may provide (multi)functional properties such as optical, electromagnetic, ones, etc.

The aim of this Special Issue is to publish original research articles and critical reviews on all aspects related to the recent advances in the development of Ni alloys involving various technological processes, including metallurgical, electrochemical, physical ones and their characterization closely related to the final application domain, from leading groups from academia and industry.

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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