

## Special Issue

# Intermetallic Alloys: Preparation, Properties and Applications

### Message from the Guest Editor

Intermetallics are a special group of metallic materials whose properties allow use under conditions in which conventional metallic materials fail—these conditions include high temperatures, aggressive corrosive environments, and extreme abrasive and adhesive stresses. Many intermetallic compounds show very good physical and mechanical properties, specifically very good thermal stability, high melting point, good corrosion resistance, and low density, which makes them suitable candidates for high-temperature applications. However, these materials show limited ductility and higher brittleness, especially at low temperatures, which is an obstacle to their wider use. It is my great pleasure to invite all researchers from the community of researchers studying intermetallics to submit a manuscript in the field for this Special Issue “**Intermetallic Alloys: Preparation, Properties and Applications**”. **Keywords** intermetallic alloys, powder metallurgy, aluminides, preparation, characterization, microstructure, mechanical properties, corrosion resistance, sintering

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### Guest Editor

Dr. Anna Knaislová

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### Deadline for manuscript submissions

closed (10 August 2023)



## Materials

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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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