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Microstructure and Properties of Intermetallics

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Intermetallic compounds can exhibit many excellent properties vastly different from those of pure metals or their alloys—for example, high melting points; high thermal conductivity; low densities; great strength; good oxidation resistance; low ductility; and brittle fracture at room temperature. Moreover, intermetallics possess strong stability at high temperatures. Therefore, they can compete with and surpass conventional metallic materials in highly demanding structural applications in such key fields as the automotive, aeronautic, energy, and transport sectors.

The main groups into which intermetallics can be classified are: nickel aluminides, iron aluminides, titanium aluminides and others such as silicides, nickel titanium, and refractory metal aluminides.

We welcome contributions on topics that include, but are not limited to:

- Intermetallics
- structure characterization
- Additive Manufacturing
- Phase transformation
- stability and ductility
- Heat treatment
- corrosion and oxidation
- Strengthen

Dr. Limei Cha
Dr. Yongjun Su
Guest Editors

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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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