

Special Issue

Intermetallics for Structural Applications

Message from the Guest Editor

Intermetallic compounds can exhibit properties vastly different from those of the pure metals or alloys of them. Therefore, they can compete with and surpass conventional metallic materials in high demanding structural applications in such key fields as aeronautics, energy, and transport. The impact of intermetallics for structural applications is even higher if we consider that they also play a key role in hardening conventional metallic matrix materials but also high-entropy alloys. For this Special Issue, we invite contributions on the topic of intermetallics for structural applications. These can either be fully intermetallic materials or metals and alloys where intermetallic phases play a significant role to enhance the properties as hardening phases. Contributions can cover the whole range starting from fundamental properties and features of intermetallic phases and their deformation mechanisms over processing with formation of the microstructure up to the mechanical behavior of whole parts relating the mechanical strength to the properties and structure of the intermetallics present in the material.

Guest Editor

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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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