

Special Issue

Advanced Ti-Based Alloys

Message from the Guest Editor

Titanium and Ti-based alloys are widely used in engineering applications such as in the aerospace, biomedical, chemical, and nuclear industries, seeing that they have a high strength-to-weight ratio, excellent corrosion resistance, and negligible biological impact on the human body. In the aerospace field, it is forecasted that the use of Ti-based alloys per plane should increase within the next year due to their high creep and oxidation resistance, good formability, and good strength/density ratio. In the biomedical area, the use of Ti-based alloys will be increasing since they exhibit a slight biological impact on the human body, and human life expectancy is expected to rise rapidly. This Special Issue focuses on the research and development of Ti-based alloys and considers a wide range of topics stemming from the design theory of new alloys to applications.

Guest Editor

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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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