

Special Issue

High Performance Titanium Alloy and Composite Materials

Message from the Guest Editor

Titanium alloy and composite materials have attracted a significant amount of attention for decades in civil and aerospace fields due to their superior properties, such as high specific strength, high specific modulus, and high-temperature durability. In order to further improve comprehensive mechanical properties, researchers have carried out a lot of research work in preparation, element content, microstructure design, reinforcement addition, hot working, heat treatment, etc., making great contributions to expanding the application of titanium alloys and their composites. This Special Issue will provide an opportunity for readers to understand the recent progress in titanium alloys and their composite materials. Papers including (but not limited to) preparation methods, hot working, microstructure evolution, and mechanical properties (at both room temperature and the elevated temperature of titanium alloys and their composite materials) are all within the range of interests of this Special Issue. ..

Guest Editor

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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