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Titanium Alloys: Processing and Properties

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2020)

Message from the Guest Editor

Dear Colleagues,

Titanium alloys offer distinct advantages over competing metallic systems, particularly where high-performance engineering applications demand a contribution from low density and corrosion resistance. From the mid-twentieth century onwards, a combination of traditional processing techniques and novel, alloy-specific routes was adopted to optimise the microstructural evolution in these alloys in order to control static strength, fatigue behaviour, and creep resistance. Due to the allotropic nature of the alpha/beta constituent phases, the role of microtexture inherently plays a fundamental role in the final mechanical properties. It is hoped that the papers to be commissioned under this current special edition of the *Metals* journal will address a wide range of issues relating to alloy processing, microstructure, and the control of mechanical properties in this important class of material.

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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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