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Towards the Development of Affordable Titanium Alloy Components

Guest Editor:

Dr. Martin Jackson
Department of Materials Science and Engineering, Sir Robert Hadfield Building, Mappin Street, Sheffield, S1 3JD, UK

Deadline for manuscript submissions:
closed (15 November 2019)

Message from the Guest Editor

Dear Colleagues,

The aim of this Special Issue is to capture the current status and emerging technologies for lowering the cost of titanium alloy components. Subjects of interest include (1) new extraction process routes that may compete with current Kroll extraction technology in the longer term; (2) the recycling of titanium alloy products into usable product and components; (3) emerging downstream processing methods that aim to reduce mill product or net shape component costs; and (4) cost reductions and modifications in conventional titanium alloy ingot-wrought processing. Contributions must demonstrate significant advances in our understanding of the processing of titanium alloy material and components, with an emphasis on the effect of processing on microstructure and mechanical properties. The use of new modeling techniques to accelerate such developments is also of interest to the community. Developments of additive manufacturing from titanium alloy powder are not within this scope, but the production of cheaper AM powder and developments of wire additive manufacturing to near net shape are of interest for this Special Issue.

Dr. Martin Jackson
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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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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