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Powder Metallurgy of Titanium Alloys

Guest Editor:

Prof. Dr. Elena Gordo
Department of Materials Science and Engineering, Universidad Carlos III de Madrid, IAAB, Avda. Universidad, 30, 28911 Leganés, Spain

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Message from the Guest Editor

The production of titanium (Ti) components by powder metallurgy (PM) is nowadays a recognized cost-effective alternative to the casting and wrought processing route. The success in obtaining high performance/cost ratios relies on multiple factors, such as remaining porosity, interstitial elements, grain size or microstructural homogeneity. Intense research is under development in the field of Ti PM all over the world, from powder production to the latest advances in additive manufacturing.

This Special Issue intends to cover the most innovative topics and strategies currently followed in PM Ti that will include fabrication of powders, alloying design, powder processing by cold or hot pressing, thermomechanical processing, fast techniques, direct additive manufacturing in all the variants (powder bed, wire, laser cladding), post processing, heat treatments, composites, porous materials, coatings and functionally graded materials (FGM). Special attention will be paid on the control of microstructure and its relation with properties in particular fatigue studies, oxidation, corrosion and wear behavior.

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Editor-in-Chief

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Message from the Editor-in-Chief

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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