Special Issue

Titanium Alloys - Materials for Special Tasks

Message from the Guest Editors

Titanium alloys are an advanced metallic material, characterized by unique physical and chemical properties—mainly high specific strength combined with very good corrosion resistance. Several groups of structural alloys, including single- and two-phase alloys, as well as TiAl intermetallic alloys, have been developed over several decades. It is accepted that titanium-based materials are used in advanced and key human industrial and economic sectors, such as aerospace, fuel-energetic industry, and medicine. A significant share of the expansion of their use is due to modern manufacturing and processing technologies, such as additive manufacturing (AM) or friction stir welding (FSW) methods. This Special Issue aims to collect works related to various aspects of research on titanium alloys and Ti-based matrix composites, as well as manufacturing and processing methods and material characterization. It is our pleasure to invite you to submit manuscripts for this Special Issue. Full papers, communications, and reviews are all welcome.
Prof. Dr. Janina Adamus

Guest Editors

Prof. Dr. Maciej Motyka

Prof. Dr. Janina Adamus

Prof. Dr. Piotr Lacki

Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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