

Special Issue

Modern Aerospace Materials

Message from the Guest Editor

Aerospace materials are a wide family, characterized by their applications under some of the most demanding mechanical, thermal, and thermo-mechanical service conditions. As such, their development has been accompanying technological breakthroughs along the last two centuries. Nowadays, current trends in the frame of the so-called “Industry 4.0 revolution”, as well as strict regulations to decrease the ecological footprint of aircrafts, together with new space travel technologies such as reusable entry vehicles are further pushing the development of metal-based aerospace materials and structures and their corresponding manufacturing methods. This Special Issue is devoted to disseminate scientific and technological efforts in this context and it is, therefore, my pleasure to invite you to submit contributions dealing with the processing and behavior under service-relevant conditions of metal-based aerospace materials.

Guest Editor

Prof. Dr. Guillermo Requena

Department of Metallic Structures and Hybrid Materials Systems,
Institute for Materials Research, German Aerospace Centre, Linder
Höhe, 51147 Cologne, Germany

Deadline for manuscript submissions

closed (15 April 2019)



Metals

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Impact Factor 2.5
CiteScore 5.3



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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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

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