

Special Issue

Characterization and Monitoring of Metal-CFRP-Hybrid Structures

Message from the Guest Editor

Cost-efficient lightweight design, e.g., for automotive applications, is becoming increasingly important in light of legislative and environmental restrictions. As a consequence of recent developments in lightweight design, structures composed of different materials have become of high interest for structural applications. Combining a variety of advantageous material properties, metal-carbon fiber-reinforced polymer (CFRP) hybrid structures represent one particular class. Future challenges for industrial applications include design guidelines, interfacial phenomena (e.g., adhesion and corrosion), cost-efficient manufacturing processes, appropriate technologies for damage inspection and condition monitoring over the complete product lifecycle, and a deeper understanding of the damage mechanisms, especially at the metal-CFRP interface.

Guest Editor

Prof. Dr. Hans-Georg Herrmann

1. Fraunhofer IZFP Institute for Nondestructive Testing, Campus E3.1, 66123 Saarbruecken, Germany
2. Chair for lightweight systems, Saarland University, Saarbruecken, Germany

Deadline for manuscript submissions

closed (29 October 2021)



Metals

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Impact Factor 3.1
CiteScore 5.7



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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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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.

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

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