

Special Issue

Hardfacing of Metals and Alloys

Message from the Guest Editor

Hardfacing is the process of surfacing with implementation of welding techniques (methods) for the deposition of harder or tougher materials on the base metal. Hardfacing is a widely used method to protect the surfaces of tools or machine parts against severe wear, corrosion, or oxidation. The methods of hardfacing are important in the application of welding techniques and technological development for the manufacturing of new components, their repair, and extension of their service life for most industries. The progress in welding methods and material engineering over recent years demands systematic studies of welding methods and consumables applied to hardfacing. The optimization of hardfacing processes require characterization of the relevant welding parameters, such as, e.g., heat input, shielding gases, and preheating temperature. The purpose of this Special Issue is to present the latest developments in the research on hardfacing technologies of metals and alloys.

Guest Editor

Prof. Jerzy Winczek

Częstochowa University of Technology, Częstochowa, Poland

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Metals
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

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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