

Special Issue

Hot Sheet Metal Forming of High Performance Materials

Message from the Guest Editors

The interest in thermo-mechanical forming processes of high-performance materials has grown significantly in recent years. The automotive sector has been the main actor driving this development, pushed by the constant demands on passenger safety and environmental regulations. Press hardening of boron steels is now a mature technology, deployed all around the world. It has proven to be unbeatable for forming complex shape parts and easy forming of high strength materials with reduced spring-back.

Research and Development both on the academic as well as on the industrial level is one of the most important prerequisites for continuous innovation in hot forming of high performance materials and open new scenarios to exploit their lightweight potential. The 8th CHS2 conference will be held in Barcelona (Spain) and aims to keep pushing the innovation trends in press hardening and related thermo-mechanical processes and to boost their application to other markets (such as heavy duty and industrial vehicles, aerospace, etc.), new applications (new needs from e-mobility) and new materials (stainless steels, light alloys, CFRP, hybrid materials, etc.).

Guest Editors

Prof. Dr. Mats Oldenburg

Prof. Dr. Jens Hardell

Prof. Dr. Daniel Casellas

Deadline for manuscript submissions

closed (30 September 2023)



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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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