

Special Issue

Novel Insights into 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. While being the solution to many lightweight actions, the hot forming industry will also face its own challenges to meet the global sustainability goals. Improving efficiency in heating technology and minimizing scrap, as well as the introduction of green or fossil-free steels will help us to shift to a higher degree of circularity.

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 9th CHS2 conference will be held in Nashville (USA) 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 (light alloys, CFRP, hybrid materials, etc.) while considering sustainability and circularity topics.

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Deadline for manuscript submissions

closed (25 April 2025)



Metals

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Impact Factor 2.5
CiteScore 5.3



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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

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