



Thermomechanical Processing of Steels

Guest Editors:

Prof. Dr. José María

Rodríguez-Ibabe

President and Researcher at
CEIT, CEIT, 20018 Donostia-San
Sebastian, Basque Country,
Spain

Professor at Universidad de
Navarra-Tecnun, Materials
Science and Metallurgy,
Universidad de Navarra-Tecnun,
M. Lardizabal 15, 20018 Donostia-
San Sebastian, Basque Country,
Spain

Dr. Pello Uranga

Materials and Manufacturing
Division, CEIT-BRTA and
Universidad de Navarra-Tecnun,
20018 Donostia-San Sebastian,
Basque Country, Spain

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Message from the Guest Editors

The achievement of mechanical properties and process stability during a Thermomechanical Controlled Process (TMCP), depend on the chemical composition, process parameter control and optimization, as well as post-forming cooling strategy and thermal treatments. Therefore, this Special Issue would like to combine contributions on different fields, topics, steel grades and forming technologies applying TMCP processes to steels. Papers regarding forming technologies, such as rolling, forging, hot-stamping, etc., using microalloyed, medium/high Mn or alternative high alloyed grades will be welcome. New technologies, such as near-net-shape production, innovative cooling strategies, such as direct quenching, quenching and partitioning or additional controlled cooling strategies will be the base for current and future new product developments.

In addition to the metallurgical peculiarities and relationships between chemical composition, process and final properties, the impact of advanced characterization techniques and innovative modelling strategies provides new tools to achieve further deployment of the TMCP technologies.





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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

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.

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Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

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