



## 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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submissions:

**closed (20 February 2020)**

### 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

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Metals Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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