

## Special Issue

# Computational Methods in Manufacturing Processes

### Message from the Guest Editors

“Computational Modeling in Manufacturing Processes” has been a very active field of research in the last few decades. Significant advances in this field have been the result of interdisciplinary multi-physics and multiscale research in related fields of computational mechanics, constitutive material models, and mathematical analysis. Additionally, during this period, industry has shown a growing interest in incorporating numerical techniques as a valuable tool for design and process optimization. Topics addressed in this Special Issue may include, but are not limited to:

- Computational modelling
- Numerical simulation
- Finite Elements
- Stabilization methods
- Thermomechanical formulations
- Material properties
- Metallurgical characterization
- Numerical methods
- Industrial applications
- Additive Manufacturing (AM) processes
- Friction Stir Welding (FSW) processes
- Casting processes
- Rolling processes
- Sheet Metal Forming (SMF) processes

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### Guest Editors

Prof. Dr. Carlos Agelet de Saracibar

Prof. Dr. Eric Feulvarch

Prof. Dr. Jean-Philippe Ponthot

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### Deadline for manuscript submissions

closed (31 December 2019)



## Metals

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CiteScore 5.3



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## About the Journal

### Message from the Editor-in-Chief

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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### Editor-in-Chief

Prof. Dr. Yong Zhang

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#### Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /  
CiteScore - Q1 (Metals and Alloys)

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manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 18.7 days after  
submission; acceptance to publication is undertaken in 2.7  
days (median values for papers published in this journal in  
the second half of 2025).