

## Special Issue

# Advances in Duplex Stainless Steels (Second Volume)

### Message from the Guest Editors

Duplex stainless steels (DSSs) were developed in the 1930s, and gradually found an increasing number applications thanks to their high strength, good weldability, good toughness and resistance to stress corrosion cracking. Although the use of DSSs is well-established in many industrial sectors, the research and innovations in the field are always growing. In particular, the recent research has focused on the development of new high-grade DSSs (the so-called hyper-duplex steels) and on the production of components through technologies based on the additive manufacturing concept, mainly laser-based ones.

In all cases, a strong correlation between the microstructural characterization and the investigated properties was the key point of the performed research.

The purpose of this Special Issue is to correlate the microstructure of DSSs with their mechanical and corrosion properties, with special attention to novel DSS grades or novel production technologies such as AM.

I invite you to submit both original contributions and review works on this topic, with papers that deal both with the characterization and with the mechanical and corrosion resistance evaluation of different DSS grades.

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### Guest Editors

Dr. Irene Calliari

Department of Industrial Engineering, University of Padova, Padova, Italy

Dr. Luca Pezzato

Department of Industrial Engineering, University of Padova, Via Marzolo 9, 35131 Padova, Italy

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### Deadline for manuscript submissions

closed (20 May 2025)



## Materials

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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