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# Microstructure and Mechanical Properties of Austenitic Stainless Steels

Guest Editors:

## Dr. Shenghu Chen

Institute of Metal Research, Chinese Academy of Sciences, Shenyang 110016, China

## Dr. Qingsong Pan

Institute of Metal Research, Chinese Academy of Sciences, Shenyang 110016, China

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## **Message from the Guest Editors**

Austenitic stainless steels constitute about 70% of stainless steel production, and are widely used in many industrial fields (e.g., chemical, petrochemical, fertilizer, food, medical and nuclear) owing to their excellent corrosion resistance, superior mechanical properties and good workability. To meet the requirements of extreme operating environments such as cryogenic temperature, higher temperature, higher operating pressure, severe corrosive environment, radiation environment and longer lifetime, the continuing development of austenitic stainless steels is still underway. Currently, promising methods including novel alloying design, processing techniques and fabrication techniques are proposed to further improve the mechanical properties.

This Special Issue titled "Microstructure and Mechanical Properties of Austenitic Stainless Steels" aims to highlight recent progress in microstructural modification and mechanical properties improvement in austenitic stainless steels.







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## **Editor-in-Chief**

## **Prof. Dr. Alessandra Toncelli** Department of Physics, University of Pisa, 56126 Pisa, Pl, Italy

# **Message from the Editor-in-Chief**

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