



Advances in Stainless Steel

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Message from the Guest Editor

Stainless steels are widely used as structural materials for a wide range of applications, including nuclear reactors, medicine, infrastructure, transportation, automotive, and food processing because of their superior corrosion resistance and formability. There is a continued and significant interest to pioneer advanced high-strength stainless steels, characterized by nano/ultrafine grains with high strength–high ductility combination to increase the strength-to-weight ratio. Stainless steels exhibiting twinning-induced plasticity and transformation-induced plasticity effects offer an impressive combination of mechanical and physical properties. The proposed Special Issue is dedicated to addressing the recent advances that continue to be made with respect to advancing the science and technology of different grades of stainless steel.





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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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