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Enhancing In-Use Properties of Advanced Steels

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Message from the Guest Editors

For several decades, advanced steel grades have attracted the attention of researchers and industry professionals.

This Special Issue aims to provide an opportunity for researchers from both academia and industry to share their advances pertinent to the Special Issue "Enhancing in-use properties of advanced steels", which covers the design strategy of novel grades of advanced steels focused on in-use properties crucial in terms of industrialization such as weldability, thermomechanical processes, thermal stability at elevated temperatures, corrosion resistance and novel methods of corrosion protection, modeling of mechanical properties focused on specific operating conditions, as well as explanations of the relationship between structure and properties (in-use, technological, mechanical, etc.). Both fundamental insights and practical foresights are greatly welcome in the form of research articles or reviews addressing topics such as thermodynamics, kinetics, physical modelling, numerical simulation, microstructural evolution, advanced characterization of structure constituents, artificial intelligence, big data, and cloud computation.

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Message from the Editor-in-Chief

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