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Microstructure and Mechanical Properties of Steels

Guest Editor:

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Message from the Guest Editor

Steel is one of the most popular materials in the world. This alloy of iron and carbon has gone a long way in the past few centuries offering gradually better and better mechanical properties. New chemical composition strategies and new technologies of casting, metal forming and heat treatment allow us to obtain modern steel products, which satisfy the needs of the present industry. Steel is used in every part of the industry, beginning from low-carbon sheet steels for automotive applications, through structural steels for bridges, buildings, linepipes, ships, pressure vessels, etc., to engineering steels, stainless steels, specialty steels, and tool steels.

This Special Issue aims at covering recent progress and new developments in relationships between the microstructure and mechanical properties of conventional and modern steel products. All aspects related to steel production, heat treatment, thermomechanical processing, physical and numerical simulation and structural characterization are covered. Review articles which describe the current state of the art are also welcomed.













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Message from the Editor-in-Chief

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