Special Issue

Advances in Microalloyed Steels

Message from the Guest Editor

In response to the demanding requirements of different sectors, new generations of microalloyed steels are being developed and brought to market. The addition of microalloying elements, such as Niobium, Vanadium, Titanium, Boron and/or Molybdenum has become a key tool in the steel industry to reach economically-viable grades with increasingly higher mechanical strengths, toughness properties, good formability and weldable products. The challenges that microalloying steel production face can be successfully solved with a deeper understanding of the effects that these microalloying additions and combinations of them have during the different steps of the steelmaking process. Their influence in softening mechanisms, such as recrystallization and grain growth during hot working, precipitation kinetics, and phase transformation during cooling are just some examples of subjects of interest for research in industry and academia. For this Special Issue on "Advances in Microalloyed Steels", I would like to invite researchers from steel industry and academia to submit their latest developments and achievements in this field.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2018)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/10556

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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