

Special Issue

FaSTeP: Faultless Steel Production and Manufacturing

Message from the Guest Editor

Steel condition monitoring is a key issue in all steel structures. However, the main issue arises in the steel production or manufacturing lines. Keeping the mechanical and other properties of steel within certain limits, then steel producers, manufacturers, and users are more sure about the healthy condition of their products. Up to now, all steel production and manufacturing methodologies have been based on standards, concerning proper recipes in hot or cold rolling, heat treatments, etc. Faultless steel production and manufacturing must be based on a continuous on-line automated feedback control based on the monitoring and rehabilitation of their properties. This is the focal point of this Special Issue: to provide methods and technologies to realize a continuous feedback control system for faultless steel production and manufacturing. Therefore, we are inviting papers on: methods and technologies for steel condition monitoring; methods and technologies for rapid, on-line, and localized steel treatment; and finally certification methods for holistic type approval of a steel product.

Guest Editor

Prof. Dr. Evangelos Hristoforou

School of Electrical and Computer Engineering, National Technical University of Athens, 15780 Athens, Greece

Deadline for manuscript submissions

closed (31 December 2021)



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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering,
State Key Laboratory for Advanced Metals and Materials, University of
Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083,
China

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