

Special Issue

Advanced High Strength Steels by Quenching and Partitioning

Message from the Guest Editors

Quenched and partitioned (Q&P) steels are complex, sophisticated materials, with carefully selected chemical compositions and multiphase microstructures resulting from precisely controlled heating and cooling processes. The key treatment parameters include annealing temperature, quenching temperature, partitioning temperature and time. Manipulation with these parameters along with the steel chemistry leads to a variety of multiphase microstructures showing a wide range of properties. For this Special Issue in *Metals*, we welcome research articles and reviews addressing theoretical and experimental design of steels and Q&P process, microstructure of Q&P treated steels, their mechanical and performance properties, Q&P process – microstructure – properties relationship, as well as examples of their industrial applications. The Special Issue is oriented to researchers from universities and industrial research centers and to steel producers directly involved in the production and product development.

Guest Editors

Dr. Ilchat Sabirov

IMDEA Materials Institute, 28906 Getafe, Madrid, Spain

Prof. Dr. Maria J. Santofimia

Department of Materials Science and Engineering, Technical University of Delft, Mekelweg 2, 2628 CD Delft, The Netherlands

Prof. Dr. Roumen Petrov

Department of Electromechanical, Systems and Metal Engineering, Ghent University, B-9052 Ghent, Belgium

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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

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About the Journal

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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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