



an Open Access Journal by MDPI

## **Recent Trends in Advanced High-Strength Steels**

Guest Editors:

### Dr. Ricardo Branco

Department of Mechanical Engineering, University of Coimbra, 3030-788 Coimbra, Portugal

### Prof. Dr. Filippo Berto

Department of Chemical Engineering, Materials and Environment, Sapienza University of Rome, 00184 Rome, Italy

### Prof. Dr. Andrei Kotousov

School of Mechanical Engineering, University of Adelaide, Adelaide, SA 5005, Australia

Deadline for manuscript submissions: closed (31 December 2019)

## Message from the Guest Editors

The goal of this Special Issue is to foster the dissemination of the latest research in the field of advanced high-strength steels. Original contributions dealing with the structure characterisation and chemistry analysis; mechanisms involved in microstructure evolution and phase transformation during processing stages; influence of processing techniques and heat treatment routes on structural integrity; or examples of innovative industrial applications of advanced high-strength steels are encouraged. Both experimental and numerical approaches are welcome.

# **Keywords**

- Advanced high-strength steels
- Ultra high-strength steels
- Dual-phase steels
- Complex-phase steels
- Transformation-induced plasticity steels
- Bainitic steels









an Open Access Journal by MDPI

## **Editor-in-Chief**

### Message from the Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo** Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases. **Journal Rank:** JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

## **Contact Us**

Applied Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci