

## Special Issue

# Enhancing In-Use Properties of Advanced Steels

### Message from the Guest Editors

For several decades, advanced steel grades have attracted the attention of researchers and industry professionals.

This Special Issue aims to provide an opportunity for researchers from both academia and industry to share their advances pertinent to the Special Issue “Enhancing in-use properties of advanced steels”, which covers the design strategy of novel grades of advanced steels focused on in-use properties crucial in terms of industrialization such as weldability, thermomechanical processes, thermal stability at elevated temperatures, corrosion resistance and novel methods of corrosion protection, modeling of mechanical properties focused on specific operating conditions, as well as explanations of the relationship between structure and properties (in-use, technological, mechanical, etc.). Both fundamental insights and practical foresights are greatly welcome in the form of research articles or reviews addressing topics such as thermodynamics, kinetics, physical modelling, numerical simulation, microstructural evolution, advanced characterization of structure constituents, artificial intelligence, big data, and cloud computation.

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### Guest Editors

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### Deadline for manuscript submissions

closed (10 September 2024)



## Materials

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*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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