



Creep and Fracture Mechanisms of Heat-Resistant Steels

Guest Editor:

Message from the Guest Editor

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In the present days, environment protection from greenhouse gas emissions encourages development of more efficient power plants. Enhancing the efficiency of power plant equipment could be a powerful lever to decrease carbon dioxide emissions.

Deadline for manuscript
submissions:

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The aim of this Special Issue is to survey recent progress in the area of high-temperature steels for thermal power plants and their applications. The mechanisms of microstructural changes under service conditions should be studied in detail to obtain a fundamental knowledge providing the progress in production of the steels with enhanced properties. Special attention will be paid to the latest achievements in theoretical and experimental investigations of mechanisms of microstructural changes/evolutions during high temperature creep, methods for creep life prediction, fracture mechanisms under conditions of creep-fatigue and TMF. Studies focused on the analysis of mechanical behaviour and microstructures of weld joints of the high-temperature steels are also welcome.





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