Special Issue

Microstructural Features, Mechanical Properties and High Temperature Failures of Welds in Creep Strength Enhanced Ferritic Steels

Message from the Guest Editor

This Special Issue will present information regarding the metallurgy, microstructure and performance of equipment manufactured from advanced 9 to 12% Cr steels. These steels are widely used in the design and manufacture of high energy components in power generating plants. Papers which describe aspects of component fabrication and quality assurance, characterization of constituent microstructures, assessment of in-service relevant properties, the design manufacture and performance of welds and root cause evaluation of defects developed in plant are particularly encouraged.

Guest Editor

Prof. Dr. Jonathan Parker
Electric Power Research Institute, Charlotte, NC 28262, USA

Deadline for manuscript submissions

closed (30 November 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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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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