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High-Temperature Corrosion and Oxidation of Metals

Guest Editors:

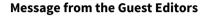
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Deadline for manuscript submissions: closed (28 February 2019)



Dear Colleagues,

Corrosion prevention is a multi-billion dollar industry. Among various corrosion types, the mitigation of corrosion high temperatures contributes considerable at maintenance expenditures in various industries, such as high-temperature processing industries, the new renewable energy technologies, and other critical hightemperature components. The literature on high temperature gaseous corrosion essentially spans a wide range of ferrous and non-ferrous metals/alloys. Its critical relevance has witnessed a renewed focus on the mechanistic understanding of high-temperature oxidation, hot corrosion in the presence of sulphur- and chloridecontaining contaminants, corrosion in supercritical water/CO2 systems, as well as on corrosion mitigation strategies including microstructural modification, alloying, coatings, and cathodic protection.

This Special Issue welcomes critical reviews and original research articles on mechanisms, mitigation, and monitoring of the high-temperature corrosion and oxidation of metals under diverse conditions, including but not limited to those described above.









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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 metallurgical field the 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.

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