# Special Issue

# Application and Research of Novel Metal Materials in the High-Temperature Environment

## Message from the Guest Editor

Novel metals and their composites are one of the most important high-temperature materials. However, the common shortcoming of these materials is brittleness. How to overcome the brittleness of these materials has been a major research direction for some time now. In recent years, researchers have made many attempts to improve the toughness and related properties of the materials by alloying, compounding, etc. These attempts are constantly promoting the development of high-temperature materials and expanding them to more high-temperature applications. The aim of this Special Issue on "Application and Research of Novel Metal Materials in High-Temperature Environments" is to bring together the recent developments in novel metal materials for the advancement of high-temperature metal materials. These developments include progress in material design, strengthening and toughening, high-temperature properties, irradiation damage, and application prospects. Manuscripts in the form of full research papers, communications, and review articles are encouraged.

## Guest Editor

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## Deadline for manuscript submissions

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## Message from the Editor-in-Chief

*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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