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Bearing Steels

Guest Editor:

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Deadline for manuscript submissions:
closed (1 October 2019)

Message from the Guest Editor

Dear Colleagues,

I would hereby like to invite you to a submit manuscript on the field of bearing steels. The domain is broad and includes topics such as rolling contact fatigue, inclusion control, casting, heat treatment, fatigue modelling, and life testing. Novel characterisation techniques are also of interest, including novel methods for inclusion and porosity quantification and control, or high-resolution techniques such as atom probe tomography. Of special interest throughout the years has been the formation and prevention of damage, often manifested as white etching cracks, white etching areas, dark etching regions and white etching bands. Submissions relating hydrogen embrittlement of bearing steels are also encouraged, as fundamental understanding of its mechanisms and methods for its prevention are in demand. Powder metallurgical processing routes or additive layer manufacturing methods for the production of bearing steels are also of interest.

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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.

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