

Special Issue

Fatigue and Wear for Steels

Message from the Guest Editor

Steel is well known for its diversity. Depending on the alloying elements tensile strengths between 300 MPa and more than 1000 MPa can be reached. Steels can be very brittle or extremely ductile, some of them are corrosion-, fatigue- or wear resistant, others not. This broad range of properties and applications of steels, combined with comparably low productions costs, qualify them to be, perhaps, the most important industrial alloys used by man. In this Special Issue, we would like to provide a wide set of articles on various aspects of fatigue and/or wear resistance of steels, possibly with respect to the similarities between these two natures of load. Experimental results, as well as numerical and analytical models, can describe the complexity of microstructure characteristics and mechanical phenomena interacting during load and influencing fatigue or tribological properties of steels.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2018)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/9384

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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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