

Special Issue

Fatigue of Metals and Welded Joints

Message from the Guest Editor

Fatigue is defined as the modification of a material's properties when cyclic loading is applied; this can generate the formation of cracks and lead to fracture. On the other hand, welding is a process that is used to weld similar and/or dissimilar metallic materials for the manufacture of machine components and structures, which are generally subjected to fatigue. This Special Issue of *Metals* is devoted to publishing original work in terms of the fatigue of materials and welded joints. Assessments of low cycle, high cycle, and very high cycle fatigue approaches, including materials with and without welding, are invited. Papers based on experimental and numerical approaches are welcome.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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