Special Issue

Crack Growth Resistance of Structural Alloys

Message from the Guest Editor

To reliably predict the lifetimes of products, it is necessary to know the properties of the materials from which they are made. Much attention of scientists from all over the world has been paid to establishing the relationship between the structures and properties of materials. One of the most important mechanical characteristics of materials is crack growth resistance. Crack growth resistance can characterize materials that operate under different types of loading, including static, cyclic, and dynamic loading. This Special Issue of *Metals* focuses on the crack growth resistance of structural materials as their structurally sensitive characteristic. The articles presented in this Special Issue describe the state of materials science in terms of crack growth resistance in 2022–2023 (see keywords/topics below). Your input on this topic is very valuable. We invite you to take part in research work that studies the influence of structures and structural imperfections on the properties (in particular, crack growth resistance) of structural materials, including those under the influence of various operational factors.

Guest Editor

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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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