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# Fracture, Fatigue and Structural Integrity of Metallic Materials

Guest Editors:

#### Prof. Dr. Sergio Cicero

Laboratory of Materials Science and Engineering (LADICIM), University of Cantabria, 39005 Santander, Spain

## Prof. José Alberto Álvarez Laso

Materials Science and Engineering Department, Universidad de Cantabria, Santander, Spain

Deadline for manuscript submissions:

closed (30 April 2019)

## **Message from the Guest Editors**

Fracture, fatigue and other subcritical processes, such as creep crack growth or stress corrosion cracking, present numerous open issues from both scientific and industrial points of view. These phenomena are of special interest in industrial and civil metallic structures, such as pipes, vessels, machinery, aircrafts, ship hulls and bridges, given that their failure may imply catastrophic consequences for human life, the natural environment and/or the economy. Moreover, an adequate management of their operational life, defining suitable inspection periods, repairs or replacements, requires their safety or unsafety conditions to be defined.

This Special Issue is focused on new advances in fracture, fatigue, creep and corrosion analysis of metallic structural components containing defects (e.g., cracks, notches, metal loss, etc.), and also on those developments that are being or could be incorporated to structural integrity assessment procedures such as BS7910, R6 or API 579-1/ASME FFS-1.

We invite you to submit original research and review articles, as well as short communications, related to these topics.











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## **Editors-in-Chief**

#### Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

### Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

# **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 metallurgical field the ranging from processing. and mechanical behavior. phase transitions microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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*Metals* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/metals metals@mdpi.com X@Metals\_MDPI