

## Special Issue

# Research on Fatigue Behavior of Metals and Alloys

### Message from the Guest Editor

In modern conditions of operation of machinery and constructions, the main tasks are to increase strength, resource, survivability, and durability. The durability and reliability of machines is largely determined by their fatigue resistance, since in the vast majority of cases for machine parts, the main type of loading is dynamic, repeated, and alternating loads, and the main type of failure is fatigue. The issues of fatigue and strength are the subject of the most careful consideration from the point of view of both scientific research and experimental design and technological developments. The difficulty in assessing the cyclic strength of construction materials is related to the fact that many different factors influence fatigue failure (structure, state of the surface layer, temperature and test conditions, loading frequency, stress concentration, cycle asymmetry, scale factor, and a number of others). Therefore, the study of the physical nature of changes in various parameters of metals during fatigue is of great scientific interest.

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### Guest Editor

Prof. Dr. Sergey V. Konovalov

1. Head of Department of Metals Technology and Aviation Materials, Samara National Research University, Samara, Russia
2. Institute of Laser and Optoelectronics Intelligent Manufacturing, Wenzhou University, Wenzhou, China

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### Deadline for manuscript submissions

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## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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