# Special Issue

# Mössbauer Analysis Applied to Metals, Alloys and Compounds

## Message from the Guest Editor

Since the discovery of the Mössbauer effect in the late 1950s, the recoilless nuclear resonance absorption of gamma rays has been successfully used in a wide range of fields including solid-state research, nuclear physics, material sciences, chemistry, metallurgy, geology, archeology, and biology. This demonstrates the capabilities of Mössbauer spectroscopy and highlights the versatility and complementarity of this kind of spectroscopy to study a diversity of problems like the magnetism in materials, their electronic structure or molecular properties, and bonding relations or relaxation processes. It can also provide information on different kinds of materials: biological samples, crystalline and non-crystalline metals, alloys and compounds, etc. This Special Issue offers an open-access forum for sharing new findings on the application of the Mössbauer effect in metals, alloys, and compounds. We welcome original research papers and reviews, informing the readers on the new developments, past achievements, and the potential new directions that the field can take. The invites you to submit a manuscript for this Special Issue.

## Guest Editor

Prof. Pere Bruna

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## Deadline for manuscript submissions

closed (15 August 2021)

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# About the Journal

## 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.

## Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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