



Advances in Microstructural Characterization of Metals by EBSD

Guest Editor:

Dr. Sónia Simões

Metallurgical and Materials
Engineering Department, Faculty
of Engineering, Oporto
University, 4099-002 Porto,
Portugal

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Message from the Guest Editor

Dear Colleagues,

Electron backscattered diffraction (EBSD) is a material characterization technique that attracts many researchers for the characterization of different types of materials. This technique presents itself as an asset in the characterization of the materials since it presents an excellent resolution, and the possibility of characterizing several microstructural aspects that is not possible with other techniques. Some of these microstructural characteristics can be the grain size with a high resolution, crystallographic orientation, texture, and aspects related to the texture and character of the grain boundaries, among others.

In this context, this Special Issue will aim to include works on the application of EBSD to characterize metallic materials at different scales and present the greatest challenges encountered in the application of this technique as well as its main applications and full potential in advanced materials characterization. We welcome submissions of both theoretical and experimental research, review articles, and novel results.





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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 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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Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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