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Modern Materials with Amorphous and Nanocrystalline Structure

Guest Editor:

Dr. Paweł Pietrusiewicz
Department of Physics, Faculty of Production Engineering and Materials Technology, Częstochowa University of Technology, 42-200 Czestochowa, Poland

Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

Materials with an amorphous and nanocrystaline structure are one of the newer groups of modern materials with significantly better properties than the corresponding crystalline materials of the same composition. Particularly interesting, for functional reasons, are amorphous ferromagnetic alloys showing the so-called soft magnetic properties. These materials, compared to the commercially used FeSi transformer sheets, show significantly lower losses during re-magnetization, reducing this undesirable effect by as much as 80%. Therefore, in-depth knowledge of the methodology of their production and a detailed analysis of the magnetic properties with the simultaneous study of their structure may contribute to significant technological progress.

Another group of modern materials are geopolymers. The term includes modern inorganic, amorphous, synthetic polymers aluminum silicates with a specific composition and unique properties.

This Special Issue covers all aspects of the synthesis, characterization, and application of modern amorphous and nanocrystaline materials. I am inviting you to publish the results of your research related to the subject of this Issue.

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Editor-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

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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