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Recent Advances in Nanostructured Metallic Materials

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Nanostructured materials are of particular interest in the materials community due to their unique microstructures and properties. The microstructural length scale of nanostructured materials is often on the order of a few to tens of nanometers.

This Special Issue aims to present the latest advances in both experiments and simulations that can improve our understanding of the fundamentals and applications of nanostructured metallic materials. Both original research articles and reviews are welcome. This Special Issue will cover a wide range of topics, including but are not limited to the following:

- Advanced manufacturing of bulk nanostructured metals;
- Mechanical properties and deformation mechanisms of nanocrystalline metallic materials;
- Advanced characterization techniques of nanostructured materials, such as in situ characterization, synchrotron X-ray, neutron diffraction, etc;
- Radiation effects on nanostructured metals;
- Thermal, electrical, magnetic, and optical properties of nanocrystalline metallic materials.

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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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