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Synthesis and Properties of Bulk Nanostructured Metallic Materials

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Deadline for manuscript submissions:
closed (31 December 2017)

Message from the Guest Editor

Dear Colleagues,

Bulk nanostructured materials (BNMs) are defined as polycrystalline bulk solids with nanocrystalline (NC) or ultrafine-grained (UFG) microstructures. These BNMs have received increasing attention because of the potential of their improved properties and promising applications compared to conventional coarse-grained materials with the same chemical compositions. Research on the synthesis and properties of BNMs is one of the most emerging fields in advanced structural materials systems. This Special Issue covers a wide scope in the research field of BNMs, and we cordially invite original research articles and reviews of the recent achievements on the following subjects of BNMs:

Synthesis and processing techniques; Development of novel experimental method; Advances in severe plastic deformation (SPD) processing and SPD materials; Powder processing and powder metallurgy materials; Deformation mechanisms and experimental mechanics; Mechanical and physical properties; Microstructural evolution and characterization; Computational and analytical modeling; Structural, functional, and biomedical applications.

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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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