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Synthesis and Properties of Metallic Multilayers

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Message from the Guest Editor

Metallic multilayers can be defined as artificially synthesized materials consisting of periodic alternating layers of two distinct metallic components. The nature of the interface is strongly dependent on the deposition parameters and fabrication methods, and understanding this process/structure relationship is an important area of research. The mechanical properties of metallic multilayers continue to receive strong interest from the research community along with magnetic properties (particularly for alternating ferromagnetic/paramagnetic components). Multilayer applications of interest include X-ray mirrors and foils used for brazing applications using self-propagating reactions.

This Special Issue aims to present the latest research results in the area of synthesis, processing, properties and characterization of multilayer structures. The focus is on systems where at least one of the components in the multilayer is a metallic component. Studies of the constituent layers, such as research on the structure interfaces in bilayer samples, are also welcome.

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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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