



Editorial Board Members' Collection Series: Improving Structural Integrity of Metals: From Bulk to Surface—2nd Edition

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Message from the Guest Editors

Dear Colleagues,

Metals and alloys continue to play a paramount role in the design and construction of load-bearing structures and mechanical components. Ferrous and non-ferrous alloys find countless applications in various industrial areas, including automotive, aerospace, marine, construction, and manufacturing fields.

When it comes to guarantee the structural integrity and safety of critical parts, a variety of protection and strengthening mechanisms—not only at the bulk level, but also at the surface level—may be exploited, not to mention the role of the manufacturing process in establishing the material microstructure and, in turn, its strength. Topics that can be covered are rather broad and may include, but are not limited to, the modification of alloy elements and the formation of new alloys such as high-entropy alloys; heat treatments; advanced manufacturing techniques such as additive manufacturing; and surface engineering techniques such as shot-peening, diffusion treatments, and coatings.





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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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