

Special Issue

Size Effects in Metals and Alloys and Impact on the Miniaturization of Metallic Parts

Message from the Guest Editor

The forming process of thin parts for miniaturized systems, used in engineering, medical or electrical devices, is often a technological challenge due to the influence of free surfaces on the mechanical properties of the material. It is well established that the manufacturing of microformed components is concerned with size effects, proceeding from dimensional or microstructural length scales. Main of published works on size effects deal with their impact on the mechanical properties: work hardening, fracture and damage mechanisms. Others properties of metals, and their evolutions with such size effects, are far less studied. This Special Issue seeks to provide a selection of original research on the current trends in size effects in metallic parts. Submissions dealing with microformability and consequences on structural and functional properties are welcome. As a of this Special Issue, I invite you to submit your work, which will be peer-reviewed, to be accepted for publication in *Metals*.

Guest Editor

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About the Journal

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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