

## Special Issue

# Recent Advances in the Effects of Thermal Processes on Alloy Microstructure and Mechanical Properties

### Message from the Guest Editors

The development and exploration of alloys is one of the key subjects of material science. The functional properties of the alloys are closely linked to the chemical composition and microstructure of the system. Therefore, the effects of heat treatment on the microstructure of an alloy are also reflected in its mechanical properties. In this sense, research on the effects of heat treatment on alloy microstructure and mechanical properties, directed towards improving these properties and performance, is essential for their wide range of uses, from consumer goods to high-technology applications. This Special Issue titled “Recent Advances in the Effects of Thermal Processes on Alloy Microstructure and Mechanical Properties” invites high-quality research focusing on the latest findings about alloy systems, comprising the correlation among the heat treatment, microstructure and mechanical properties of alloys, as well as their impact on the alloy's applicability. Topics of interest include, but are not limited to, the following: alloys with various base metals; steel materials; superalloys; intermetallics.

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### Guest Editors

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### Deadline for manuscript submissions

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## Processes

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