



Processing, Microstructure and Property Relationships in Advanced Manufacturing of Alloys

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In the hot forming process, materials often undergo a series of plastic deformation. The hot forming parameters, including strain rate, strain, and deformation temperature, greatly impact the hot deformation behavior and deformation mechanisms of alloys. Meanwhile, complex microstructure evolution is induced, which greatly affects the properties of components. In order to further optimize the microstructures and properties, heat treatment of the hot formed components is a necessary procedure. Thus, it is of great importance to investigate the processing–microstructure–property relationships in advanced manufacturing of alloys.

It is my pleasure to invite you to submit research articles and review papers to this Special Issue on advanced forming technologies and heat treatments of aluminum alloys, nickel-based superalloys, titanium alloys, and magnesium alloys as well as their components. I believe that this Special Issue can inspire many scientists who have been pursuing greater understanding of the processing–microstructure–property relationships in the advanced manufacturing of alloys.

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Message from the Editor-in-Chief

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