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Mechanical Properties and Structure Control of Superalloys

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Message from the Guest Editors

Superalloys are a group of nickel, iron–nickel and cobalt alloys, which exhibit excellent heat-resistant properties and high stiffness, strength, toughness and dimensional stability at high temperatures, as well good resistance to corrosion and oxidation at high temperatures. Currently, there are demands for high-performance superalloys via alloy design, microstructural control, emerging fabrication techniques, etc. Contributions related to microstructure design and microstructural control are collected in this Special Issue, together with their relation to the microstructure evolution and mechanical performance of superalloys. The goal of this Special Issue of *Materials* is to present contributions related to microstructure design and microstructural control as well the relationship between microstructure and mechanical performance of superalloys in different processing techniques including casting, solidification, heat treatment procedures, hot-working, cold-working and additive manufacturing. It is my pleasure to invite you to submit a manuscript for publication in this Special Issue.



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Special Issue



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Message from the Editor-in-Chief

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