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## Advances in Welding of Alloy and Composites

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### **Message from the Guest Editors**

Dear Colleagues,

Welding is a promising way to fabricate multi-material structures to achieve weight reduction and high functionalization. However, no welding method can be applied or used universally for different materials, such as aluminum alloys, copper alloys, steel, etc. With the development of new materials such as metal matrix composites and high entropy alloys, different welding methods have been developed and used in addition to conventional fusion welding, e.g., friction stir welding, ultrasonic spot welding, laser-arc hybrid welding, diffusion welding, and so on. It is difficult to obtain high-strength and defect-free welding joints for materials with various physical properties. Research has concentrated on the welding characteristics of different alloys and composites, and the acquisition of high-strength welding joints will be the most important criterion for their wider application. The goal of this Special Issue is to describe recent developments in this developing research field. Therefore, we invite you to submit manuscripts to this Special Issue. Full papers, communications, and reviews are all welcome.



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# Special Issue



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## Message from the Editor-in-Chief

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