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Recent Developments in Welding Technology of Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 April 2023)

Message from the Guest Editor

Dear Colleagues,

The development of an advanced joining process is a significant objective when it comes to determining the ideal multimaterial design. This involves both an advanced joining process and advanced surface modification technology for bulk materials. Friction stir welding is the main element of bulk joining, and using a non-melting plastic flowing process in the place of regular fusion welding is expected to offer infinite possibilities as regards the future of welding and joining processes. Joining dissimilar materials via friction stirring is main topic of this Special Issue, but thermal spraying, cold spraying, and aerosol deposition in the surface modification process of materials are also of interest. A common feature in these three processes is the formation of a thick coating with so-called particle deposition, and papers focusing on the verification of the coating formation mechanism in the PD process are invited.

Prof. Dr. Masahiro Fukumoto

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Message from the Editor-in-Chief

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