



Advanced Welding and Joining Processes for Automotive Applications

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Message from the Guest Editor

Dear Colleagues,

With the increasing demands for lightweighting, the use of light metals and composites for automotive manufacturing is continuously required. Many car manufacturers especially strive to find effective ways to join dissimilar material combinations and coated materials without adding significant cost or weight to the structure.

This Special Issue is devoted to addressing the recent efforts to develop novel welding and joining processes that can potentially reduce weight, cost, and time while increasing the strength, reliability, and weldability of metallic or non-metallic structures. The research articles are expected to either introduce novel joining processes or contribute to the understanding of the welding metallurgy of advanced materials using microscopy or numerical simulations.

Original research articles and reviews are welcome. I look forward to receiving your contributions.





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Message from the Editor-in-Chief

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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