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# **Fusion Bonding/Welding of Polymer Composites**

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## **Message from the Guest Editors**

Dear Colleagues,

Joining of polymer composites may be achieved by different technologies. However, one of the greatest drivers for thermoplastic composites use is the ability to join components via fusion bonding/welding.

Although some methods like resistance or induction welding are quite well established, other technologies are still at a more or less advanced development stage. One of the challenges is to master the interfacial phenomena, structure and quality in the assembly area (welds). The same issues are also to tackle for 3D-printed or overmolded parts. Besides, there is a need for reliable predictive process simulation softwares, and also for increased inline monitoring and control of welding process parameters.

This Special Issue welcomes papers on the latest advances and development of fusion bonding/welding of thermoplastic composites. Suggested contributions may address materials, processing, modeling/simulation, monitoring/control, performance or application issues, with either experimental or numerical approches.

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## **Message from the Editor-in-Chief**

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