



Fusion Bonding/Welding of Polymer Composites

Guest Editors:

Prof. Dr. Patricia Krawczak

Centre for Materials and Processes, IMT Lille-Douai, Institut Mines-Télécom, Douai, France

patricia.krawczak@imt-lille-douai.fr

Dr. André Chateau Akué Asséko

Centre for Materials and Processes, IMT Lille-Douai, Institut Mines-Télécom, Douai, France

andre.akue.asseko@imt-lille-douai.fr

Prof. Dr. Chung-Hae Park

Centre for Materials and Processes, IMT Lille-Douai, Institut Mines-Télécom, Douai, France

chung-hae.park@imt-lille-douai.fr

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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 approaches.

Dr. André Chateau Akué Asséko

Prof. Dr. Patricia Krawczak

Prof. Dr. Chung-Hae Park

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Duff Medical Science Building,
3775 University Street, Montreal,
QC H3A 2B4, Canada

Message from the Editor-in-Chief

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Contact Us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
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