



Advanced Joining Technologies for Carbon Fiber Reinforced Thermoplastics (CFRTPs)

Guest Editor:

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Message from the Guest Editor

Carbon-fiber-reinforced thermoplastics (CFRTPs) have attracted the attention of many researchers from the automotive and aerospace industries because of their low density, high specific strength, high load-bearing capacity, excellent corrosion resistance. Joining is one of the enabling technologies for the upscaling of CFRTPs in the primary structural components because the high viscosity of the polymer matrix and continuous reinforcement of fibers limit the size and structure of CFRTP products in small and simple geometries. In addition, hybrid metal/composite or metal/plastic structures are still indispensable in many applications for the foreseeable future. The significant physical and chemical difference between CFRTP and metals makes the joining between them very difficult. There is an increasing interest in developing an effective method for joining CFRTP to metals.

This Special Issue aims to present the latest scientific and technical advances in the welding and joining of CFRTP to polymer-based composites and CFRTP to metals, including but not limited to process development and optimization, joint characterization, modeling and simulation, performance prediction.





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