Special Issue

Advanced Joining Technologies for Carbon Fiber Reinforced Thermoplastics (CFRTPs)

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.

Guest Editor

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Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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