



materials



Special Issue Reprint

Fusion Bonding/Welding of Polymer Composites

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This Special Issue reprint focuses on the latest advances and development of fusion bonding/welding of polymer composites. It contains research articles addressing materials, processing, modeling, monitoring, or performance issues with experimental or numerical approaches. Whatever the process, e.g., resistance, induction, ultrasonic, laser or conduction welding, or 3D printing using fused deposition modeling, one of the challenges is to master the interfacial phenomena, structure, and quality in the assembly area (welds), which is rather tricky due to the presence of the reinforcement fibers. Additionally, it is of paramount importance to develop reliable predictive process simulation software and monitor and control the process parameters in situ.



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