



## Fiber Reinforced Thermoplastic Composites: Processing/Structure/Performance Inter-relationships

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Deadline for manuscript submissions:

**closed (29 February 2024)**

### Message from the Guest Editors

Dear Colleagues,

The search for eco-responsible solutions is attracting the interest of end-use industries toward FRT composites. However, many challenges are limiting the development of optimization approaches of FRT composites for structural parts. Such challenges emanate from complexities related to the multiscale structure of reinforcement and multiphysical phenomena governing the use of thermoplastics within liquid resin transfer processes. In this context, the development of new interdisciplinary approaches for better understanding processing-structure-performance inter-relationships is encouraged to alleviate challenges related to smart manufacturing, advanced microstructure characterization, numerical modeling of physical phenomena or simulation approaches. The current Special Issue aims to explore recent developments focused on FRT composites. Multidisciplinary articles and review papers are encouraged to cover emerging topics such as artificial intelligence applied to manufacturing, data-driven simulations, multimodal microstructure characterization, hierarchical FRT composites, mechanical metamaterials, etc.





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