



Manufacturing of Polymer-Matrix Composites

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Message from the Guest Editors

Polymer–matrix composites play a central role in the energy transition with their low density. Wind rotor blades, pressure tanks for hydrogen, battery housings—none of these applications can operate without those materials. Lightweight materials combined with a high degree of functional integration offer many opportunities to reduce moving masses and thus significantly contribute to resource efficiency and sustainability. The properties of the composite parts can be tailored based on the type of reinforcement and the selected processing technique.

In this Special Issue, new approaches with respect to the processing of polymer composites will be presented and discussed. Contributions focused on the manufacturing of polymer–matrix composites in any of the following topics are of particular interest:

- Novel processing approaches for thermosets as well as for thermoplastic polymer composites;
- Fibers and textiles;
- Additive manufacturing technologies for polymer composites;
- Resource-efficient processing technologies for polymer–matrix composites;
- Joining technologies for polymer composites;
- Process monitoring, modeling, and control.





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