



Liquid Processing for Manufacturing of Composite Materials: Experimental Techniques and Numerical Modelling

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Message from the Guest Editors

Dear Colleagues,

Studying liquid processing during manufacturing of composite materials has been a focal area over the last few decades spanning around developing cutting-edge experimental techniques and numerical approaches. These efforts aim to reduce manufacturing-induced deficiencies, tailor mechanical, thermal, and physical properties across different length scales, and enhance overall structural performance.

The purpose of this Special Issue is to collect state-of-the-art studies focused on experimental methods, theoretical approaches, and numerical simulations as well as high-quality review papers related to liquid processing during manufacturing of composite materials. Interesting topics include (but not limited to) experimental methods of characterising porous media properties, resin impregnation mechanisms/modelling into fibrous porous media at different length scales, rheology and cure kinetics of polymers, and multiphysics modelling of liquid composite moulding. In addition, articles may cover modification and functionalisation of composites applied in transport and renewable energy industries.

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