

Special Issue

Modeling of Composite Materials

Message from the Guest Editors

In recent years, composite materials have been widely utilized in a host of industrial fields, due to their better mechanical properties with a lower weight. The experimental method is a conventional approach to investigate the mechanical behavior, failure mechanism, and structural design of the composite materials, but it will cost a large quantity of time and money. With the advancement of computer science, the numerical method is gradually adopted by the scholars to cope with this tough task. This Special Issue on “Modeling of Composite Materials” seeks high-quality research focusing on the latest advances modeling techniques for all kinds of composite materials or structures:

- Novel applications of Finite Element Method and related methods like Extended FEM (XFEM), Smoothed Particle Hydrodynamics (SPH);
- Applications of other advanced methods like Phase Field Method (PFM), PeriDynamics (PD), Discrete Element Method (DEM);
- Applications of Intelligent Algorithm or Machine Learning (Deep Learning) methods in modeling and predicting the mechanical behavior of composite materials.

Guest Editors

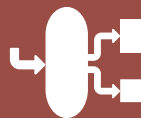
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Deadline for manuscript submissions

closed (15 March 2025)



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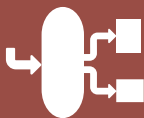


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