

Special Issue

Recent Advances in Theoretical and Computational Modeling of Composite Materials and Structures

Message from the Guest Editors

Composite materials and structures feature internal length scales and nonlocal behaviors, whose response could be analyzed systematically, while including the effect of the stacking sequences, ply orientations, agglomeration of nanoparticles, volume fractions of the constituents, and porosity level. Studies on fiber-reinforced composites and laminates, functionally graded materials (FGMs), Carbon nanotubes (CNTs), graphene nanoplatelets, SMART constituents, as well as innovative and advanced classes of composites are welcome. Some examples could be represented by large stroke SMART actuators, piezoelectric sensors, shape memory alloys, magnetostrictive and electrostrictive materials, as well as auxetic components and angle-tow laminates. These constituents could be included in the lamination schemes of SMART structures for a successful control and monitoring of their vibrational behavior and/or static deflection.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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