

Special Issue

Dynamic Behavior of Laminated and Sandwich Composite Materials

Message from the Guest Editor

Evaluating the behavior of composites under dynamic loading conditions (impact, blast, and vibration) has reached a high level of maturity, facilitating the design of nanocomposites and composites with multifunctional properties by using experimental and numerical simulation methodologies. Laminated and sandwich composite fabrication requires further research on topics such as advanced and automated manufacturing processes and the novel design of metamaterials. Our objective is to bring together various techniques developed for the fabrication of composites via additive manufacturing, with the aim of presenting new perspectives on improved technologies for controlling the microstructure of composites. Thus, composites can be designed with enhanced overall material toughness and without compromised strength and stiffness. In this Special Issue, we aim to acquire a better understanding of the rate- and temperature-dependent dynamic mechanical properties of composites and their anisotropic properties by assessing the relationships between microscopic and macroscopic parameters specific to damage mechanisms.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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