PREFACE: RECENT DEVELOPMENT IN COMPOSITES AND ITS APPLICATIONS

In the 21st century, the need for high-performing materials in the aerospace, automotive, electronics, food, pharmaceuticals, and space industries has attracted the attention of researchers toward the development of new composite materials. The composites have proved to be superior to the conventional materials in terms of higher strength and weight ratio, corrosion resistance, and superior physical, chemical, and mechanical properties. The discovery of new nanomaterials has opened the window for nanoscale reinforcing of various nanomaterials and structures such as nanofibers, nanosheets, nanotubes, etc., for creating the nanocomposites which have superior properties over the conventional composites.

We are pleased to present a special issue entitled “Recent Development in Composites and its Applications” in Composites: Mechanics, Computations, Applications: An International Journal. The special issue is part of the International Conference on the Futuristic Advancements in Materials, Manufacturing, and Thermal Sciences (ICFAMMT-2022). ICFAMMT-2022 is jointly organized by the Department of Mechanical and Aerospace Engineering, Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad, India, and the Space Society of Mechanical Engineers (SSME), Space Applications Centre, ISRO, Ahmedabad, India. This conference aims to provide a splendid opportunity for academicians, researchers, people in industry, and young scientists to address new challenges and discuss futuristic advancements in materials, manufacturing, and thermal sciences. ICFAMMT-2022 received 327 papers, and 176 papers were selected for the oral presentation after a rigorous peer review.

The special issue consists of the ten best papers presented at the ICFAMMT-2022 in the field of composites and their application. The guest editors thank all the contributing authors and the reviewers for their contribution to the special issue.

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