



Polymeric Composites Reinforced with Natural Fibers and Nanofillers

Guest Editors:

Dr. Deesy G. Pinto

CQM-Centro de Química da
Madeira, MMRG, Universidade da
Madeira, Campus da Penteada,
9020-105 Funchal, Portugal

deesy.pinto@staff.uma.pt

Dr. Virupaxi Auradi

Department of Mechanical
Engineering, Siddaganga
Institute of Technology, Tumkur -
572 103, Karnataka, India

vsauradi@gmail.com

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Message from the Guest Editors

Recent manufacturing advancements have led to the fabrication of polymeric composites reinforced with natural fibers and nanofillers. However, to reduce the impact on the environment, efforts have been made to replace synthetic fibers by natural fibers in many applications. Natural fibers can possess higher cellulose content, a higher degree of polymerization of cellulose, and a lower microfibrillar angle, which are crucial factors for the mechanical properties, namely tensile modulus and tensile strength, and many other properties that make them suitable for the reinforcement of polymeric composites. Their blend consists in epoxy resin matrices, which are thermoset polymer matrices. After curing, this material displays some excellent mechanical, thermal, electrical, and chemical properties. The Special Issue aims to focus the addition of two types of fillers (natural fibers and inorganic fillers) into epoxy resin matrices to review and highlight recent findings and trends to show future directions and opportunities for the development of polymer nanocomposites reinforced with rigid nanoparticles and natural fibers.

