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Nanocomposites from Renewable Resources

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Deadline for manuscript submissions:
closed (30 September 2022)

Message from the Guest Editors

Nanocomposites based on renewable and biocompatible filler and matrix materials may find specific applications in technologically important areas such as surgical implants, tissue engineering scaffolds, structural materials, coatings, and energy harvesting. This Special Issue invites manuscripts concerning the design synthesis, characterization, and applications of nanocomposites from renewable resources. Special interest will be research that highlights the advantages in the use of renewable precursors over conventional raw materials based on petrochemicals and probes their applicability in traditional industries without loss of functionality. Original articles describing combinations of various renewable matrices and fillers and the use of novel processing consolidation techniques to achieve optimal material properties will be highly welcome.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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