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Advances in Polymer Nanocomposite Films II

Guest Editor:

Prof. Dr. Teresa Cuberes

Departamento de Mecánica Aplicada e Ingeniería de Proyectos, Escuela de Ingeniería Minera e Industrial, Universidad de Castilla-La Mancha, Almadén, Spain

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Message from the Guest Editor

Polymer nanocomposite films enable the development of enhanced batteries and fuel cells for cleaner energy production and storage, nanogenerators that are capable of harvesting energy, novel membranes or coatings for biomedical devices with both diagnostic and therapeutic capabilities, membranes for water purification; these technologies are are biodegradable and sustainable, and thus compatible with the implementation of a circular economy. This Special Issue aims to highlight the relevance of the polymer matrix structure in polymer–filler and filler–filler interactions at different structural levels, ranging from the atomic to the nano/micro scale, and their impact on the resulting properties of the polymer nanocomposites.

We are pleased to invite you to present your research related to the characterization, synergistic effects, synthesis routes and high-level performance of polymer nanocomposite films. We look forward to receiving your contributions.











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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University of California Davis, One Shields Avenue, Davis, CA 95616-5270, USA

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, 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, metalorganic 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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