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State-of-the-Art of Nanocomposite Materials in Spain

Guest Editor:

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Message from the Guest Editor

The synergy between recent achievements in nanotechnology and material science is bringing to light amazing scientific innovations that only a few years ago might have been considered completely unfeasible. The development of novel techniques to design, synthetize, and characterize tailored hybrid nanocomposites today is playing a crucial role in many practical applications, guided by a deeper understanding of chemistry and physics within this distance scale. The horizon of possibilities ranges from biomedical and biotechnology applications to nanoelectronics, energy production and conversion, optics, etc. Since the emergence of nanotechnology as a scientific domain, Spain has developed a wide network of research institutions and companies that has produced truly relevant scientific and technological contributions in this field. The objective of this Special Issue is to provide an updated general perspective of the research that is currently being carried out. Contributions are welcome in any of the related nanocomposite materials applications, including collaborations of Spanish research groups with international collaborators.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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