Special Issue

Recent Advances in Metal-Polymer Nanocomposites

Message from the Guest Editors

Recently, several new chemical techniques for the synthesis of metal-polymer nanocomposites have appeared in the literature. Polymer-embedded metal nanostructures are typically prepared by precursor thermolysis or photolysis, a chemical reduction of salts, sonochemical approaches, etc. Innovations in this field are represented by one-pot synthesis, sustainable approaches, and continuous-flow techniques. These nanostructured materials are used mostly for advanced magnetic applications, new capacitors, batteries, sensing materials, actuators, etc. The aim of this Special Issue is to collect short communication, long review and full-length papers including up-to-date experimental and theoretical information on this great field of material science. In addition, review-paper contributions that are capable of providing an overview in this field have additionally been planned. Please see more details at the following link: https://www.mdpi.com/si/163155

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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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